



Peptide Tools for Cancer Research

- Monitoring of Cellular Immune Response
- Humoral Immune Response Profiling
- Immunotherapy
- Seromarker Discovery
- Epigenetics
- Cancer Proteomics
- Enzyme Profiling



Innovative Peptide Solutions

About JPT Peptide Technologies

JPT Peptide Technologies GmbH is located in Berlin, Germany and is serving a worldwide customer base in the pharmaceutical and biotechnology industries as well as researchers in universities and non-profit organizations. Over the past decade, JPT has developed a portfolio of proprietary technologies which support researchers in proteomics and the development of vaccines and therapies for infections, autoimmune diseases, allergies and cancer.

Quality Assurance

JPT is ISO 9001:2008 certified and GCLP compliant.



Have a look at our website

www.jpt.com

for further information, product datasheets and protocols, references and application notes!

Testimonials

"The main focus of my research group at the Charité in Berlin is the development of novel immunotherapeutic approaches against cancer and infectious diseases. For reliable monitoring of tumor and virus specific T-cell responses we have a permanent need for peptides and peptide pools that are produced in a regulated environment for application in a clinical environment. JPT has been a long term and dedicated partner in this regard which continuously works on improving it's peptide based services."

Prof. Dr. Carmen Scheibenbogen, Charité Berlin, Germany

"Our research at Stanford University seeks to discover unconventional translation products and proteins made by unsequenced organisms to characterize a wide array of protein post-translational modifications and to perform peptide antigen binding assays. On all of these fronts, we are in need of high quality peptide standards for assay development and protein quantification. The successful collaboration with the team at JPT Peptide Technologies and their wide range of products has been a critical factor for advancing my group's research."

Joshua E. Elias, Ph.D.,
Stanford University School of Medicine, USA

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JPT's customer support team and product experts welcome your questions and feedback!



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PepMix™ Peptide Pools

PepMix™ Peptide Pools are reliable tools for antigen-specific *in vitro* stimulation of T-cells for ELISpot, ICS, Flow Cytometry and more. They contain synthetic, purified peptides derived from overlapping antigen scans or defined epitopes. Each peptide is analyzed to meet the requirements of T-cell assays. Our validated pooling protocol ensures presence of all peptides within a pool.

PepMix™ Peptide Pools have widely been used for optimization and validation of T-cell assays, monitoring of cellular immune responses, assessment of vaccine efficacy, as controls during T-cell assays and to develop novel immunotherapy approaches.

Specifications of JPT's PepMixes™

- Scan format: 15 mers with 11 aa overlap
- Guaranteed purity for each peptide
- 25 tests/vial (PepMix™) or 6 tests/rack (PepMix™ Collection)
- Produced under ISO 9001 and GCLP regulations

Applications

- T-cell assays
- Immune monitoring
- Immune response qualification of transplant patients
- Antigen specific T-cell stimulation
- T-cell expansion

For further information please visit our website www.jpt.com

Controls

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
CEF Pool (extended)	32	PM-CEF-E	Epstein-Barr virus (HHV-4), Human cytomegalovirus (HHV-5), Influenza A	Various (sequences online)
CEF Pool (standard) (15nmol)	23	PM-CEF-S	Epstein-Barr virus (HHV-4), Human cytomegalovirus (HHV-5), Influenza A	Various (sequences online)
CEF Pool (standard) (120nmol)	23	PM-CEF-S-120	Epstein-Barr virus (HHV-4), Human cytomegalovirus (HHV-5), Influenza A	Various (sequences online)
CEFT Pool	27	PM-CEFT	Clostridium tetani, Epstein-Barr virus (HHV-4), Human cytomegalovirus (HHV-5), Influenza A	Various (sequences online)
CEFT MHCII Pool	14	PM-CEFT-MHC-II	Clostridium tetani, Epstein-Barr virus (HHV-4), Human cytomegalovirus (HHV-5), Influenza A	Various (sequences online)
EF Pool	20	PM-EF	Epstein-Barr virus (HHV-4), Influenza A	Various (sequences online)
HCMVA (IE-1)	120	PM-IE1	Human cytomegalovirus (HHV-5)	P13202
HCMVA (pp65)	138	PM-pp65	Human cytomegalovirus (HHV-5)	P06725



Your PepMixes™ are delivered freeze-dried in glass vials (individual PepMixes™) or in 96-tube racks (PepMix™ Collections) accompanied by product datasheets and application protocol.



Product Name	No. of Peptides	Product Code	Organism	Protein ID (Swiss-Prot)
HCMVA (IE-2)	143	PM-IE2	Human cytomegalovirus (HHV-5)	P19893
HIV-1 (Con B gag motif)	123	PM-HIV gag	Human immunodeficiency virus (HIV)	Various (sequences online)
Human (Actin)	120	PM-ACTS	Homo sapiens (Human)	P68133
Human (HLA class I Ig-like C1 type domain)	19	PM-C1	Homo sapiens (Human)	P30455
Human (MOG)	29	PM-MOG	Homo sapiens (Human)	Q16653

Tumor Associated Antigens

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Human (CEA)	173	PM-CEA	Homo sapiens	P06731
Human (Claudin-6)	53	PM-CI-6	Homo sapiens	P56747
Human (Cyclin-B1)	106	PM-CYC_B1	Homo sapiens	P14635
Human (ErbB2_ECD)	161	PM-ERB_ECD	Homo sapiens	P04626
Human (ErbB2_ICD)	146	PM-ERB_ICD	Homo sapiens	P04626
Human (Histone H1.2)	51	PM-H1.2	Homo sapiens	P16403
Human (Histone H4)	23	PM-H4	Homo sapiens	P62805

More Tumor Associated Antigens



Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Human (MAGEA1)	75	PM-MAGEA1	Homo sapiens	P43355
Human (MAGEA3)	76	PM-MAGEA3	Homo sapiens	P43357
Human (MAGEA4)	77	PM-MAGEA4	Homo sapiens	P43358
Human (Mammaglobin A)	21	PM-MamA	Homo sapiens	Q13296
Human (Melan-A/MART-1)	27	PM-MelA	Homo sapiens	Q16655
Human (Melanocyte protein Pmel 17 gp100)	163	PM-GP100	Homo sapiens	P40967
Human (Metalloreductase STEAP1)	82	PM-STEAP1	Homo sapiens	Q9UHE8
Human (Mucin-1)	115 (311 peptides reduced by 196 doubled peptides)	PM-MUC1	Homo sapiens	P15941
Human (Myc protein)	107	PM-cMyc	Homo sapiens	P01106
Human (NY-ESO-1)	43	PM-NYE	Homo sapiens	P78358
Human (P53)	96	PM-p53	Homo sapiens	Q2XN98
Human (PAP)	94	PM-PAP	Homo sapiens	P15309
Human (Prame/OIP4)	125	PM-OIP4	Homo sapiens	P78395
Human (Prostate-specific antigen PSA)	63	PM-PSA	Homo sapiens	P07288
Human (SOX-2)	77	PM-SOX-2	Homo sapiens	P48431
Human (SSX2)	45	PM-SSX2	Homo sapiens	Q16385
Human (Stromelysin-3, MMP11)	121	PM-MMP11	Homo sapiens	P24347
Human (Survivin)	33	PM-Survivin	Homo sapiens	O15392
Human (TCRgamma alternate reading frame protein TARP)	12	PM-TARP	Homo sapiens	A2JGV3
Human (Tyrosinase)	117	PM-Tyr_H	Homo sapiens	P14679
Human (Tyrosinase-related protein 2)	127	PM-TRP-2	Homo sapiens	P40126
Human (WT1/WT33)	110	PM-WT1	Homo sapiens	P19544
Mouse (Survivin)	33	PM-M_Survivin	Mus musculus	O70201
Mouse (Tyrosinase)	117	PM-Tyr_M	Mus musculus	P11344

Infectious Diseases' Antigens

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
BKV (capsid protein VP1)	88	PM-BKV-VP1	BK polyomavirus	P14996
BKV (capsid protein VP2)	85	PM-BKV-VP2	BK polyomavirus	P03094
BKV (capsid protein VP2, isoform VP3)	56	PM-BKV-VP3	BK polyomavirus	P03094-2
BKV (large T antigen)	170	PM-BKV-LTA	BK polyomavirus	P14999
BKV (small T antigen)	41	PM-BKV-STA	BK polyomavirus	P03082
EBV (BARF1)	53	PM-EBV-BARF1	Epstein-Barr virus	P03228
EBV (BMLF1)	117	PM-EBV-BMLF1	Epstein-Barr virus	Q04360
EBV (BMRF1)	99	PM-EBV-BMRF1	Epstein-Barr virus	P03191
EBV (BRLF1)	149	PM-EBV-BRLF1	Epstein-Barr virus	P03209
EBV (BZLF1)	59	PM-EBV-BZLF1	Epstein-Barr virus	P03206
EBV (EBNA1)	158	PM-EBV-EBNA1	Epstein-Barr virus	P03211
EBV (EBNA2)	119	PM-EBV-EBNA2	Epstein-Barr virus	P12978
EBV (EBNA3a)	234	PM-EBV-EBNA3a	Epstein-Barr virus	P12977
EBV (EBNA3b)	279	PM-EBV-EBNA3b	Epstein-Barr virus	Q1HVG4
EBV (EBNA3c)	265	PM-EBV-EBNA3c	Epstein-Barr virus	Q69140
EBV (EBNA-LP)	124	PM-EBV-EBNA-LP	Epstein-Barr virus	Q8AZK7
EBV (GP350/GP340)	224	PM-EBV-GP350/GP340	Epstein-Barr virus	P03200
EBV (LMP1)	94	PM-EBV-LMP1	Epstein-Barr virus	P03230
EBV (LMP2)	122	PM-EBV-LMP2	Epstein-Barr virus	P13285
HAdV-3 (hexon protein)	234	PM-HAdV3	Human adenovirus 3	P36849
HAdV-5 (penton protein)	140	PM-HAdV5	Human adenovirus 5	P12538
HPV16 (L1)	124	PM-HPV16-L1	Human papillomavirus type 16	Q9WLQ6
HPV 16 (Protein E6)	37	PM-HPV16-E6	Human papillomavirus type 16	P03126
HPV16 (Protein E7)	22	PM-HPV16-L7	Human papillomavirus type 16	P03129
HPV 18 (Protein E6)	37	PM-HPV18-E6	Human papillomavirus type 18	P06463
HPV 18 (Protein E7)	24	PM-HPV18-E7	Human papillomavirus type 18	P06788
Human (Kir4.1)	92	PM-Kir4.1	Homo sapiens	P78508
VACV (Cell surface-binding protein, MVA105L)	74	PM-MVA-105L	Vaccinia virus	O57211
VACV (Host range protein 2, MVA018L)	35	PM-MVA-018L	Vaccinia virus	P68598

More Infectious Diseases' Antigens

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
VACV (L3L)	85	PM-VACV-L3L	Vaccinia virus	P07614
VACV (Major core protein P4a, MVA 121L)_2 Subpools	112 + 111	PM-MVA-121L	Vaccinia virus	O57223
VACV (MVA 074R)	106	PM-MVA-074R	Vaccinia virus	O57196
VACV (MVA093L)	79	PM-MVA-093L	Vaccinia virus	O57206
VACV (MVA189R)	45	PM-MVA-189R	Vaccinia virus	O57265

PepMix™ Collections

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Breast Cancer	1018	PM-C-Brea	Homo sapiens	Various (sequences online)
EBV	2043	PM-C-EBV	Epstein-Barr virus	Various (sequences online)
Melanoma	814	PM-C-Mel	Homo sapiens	Various (sequences online)
Papillomavirus	396	PM-C-HPV	HPV	Various (sequences online)
Prostate cancer	793	PM-C-PC	Homo sapiens	Various (sequences online)

GxP Peptides & Pools

Custom peptide synthesis with quality control that goes beyond ISO 9001:2008 regulations for the more stringent product requirements of immunotherapy as well as vaccine & drug development. Thus, the resulting GxP peptides and GxP peptide pools have been approved for specific clinical applications.

Specifications of GxP Peptide & Pools

- High peptide purities available (up to >97%)
- Full analytical documentation
- Stringent quality control beyond ISO 9001:2008 regulations (clinical grade peptides)
- Vendor qualification, ADCF policy, line clearance, batch release and more
- Regular status reports and comprehensive QC /QA documentation
- Additional analyses optional (e.g. residual solvent, stability, solubility testing, endotoxin testing)

Applications

- *In vitro* stimulation of antigen specific CD4 and CD8 T-cells
- Generation of antigen specific CD4 and CD8 effector/memory T-cells
- Research on dendritic cell vaccination strategies and antigen delivery
- Immunotherapeutic applications
- Clinical immune monitoring

Please inquire for further information and pricing: peptide@jpt.com

MHC Multimers

Fluorescent-labeled MHC multimers are used to detect, quantify and isolate antigen-specific T-cells in fluid samples (e.g. blood, cultured cell lines, CSF, lymph, synovial fluid) by flow cytometry, and for in situ detection (e.g. in solid tumors) by immunohistochemistry (IHC).

JPT's MHC Multimers carry a high number of MHC-peptide complexes and fluorochromes, showing a strong staining intensity, high resolution and signal-to-noise ratio with minimal background staining.



Individual Multimers

More than 400 different MHC Multimers are available at www.shop.jpt.com

Selection of alleles

Human: HLA-A*0101, 0201, 0301, 1101, 2402, 2902, 6801
 Human: HLA-B*0702, 0801, 2705, 3501, 5101
 Mouse: H-2 Db, H-2 Kb, H-2 Kd, H-2 Kk, H-2 Ld

Selection of antigens

BCL2, EBV antigens, WT1, Survivin, gp100, MAGE, Tyrosinase, Telomerase, p53

Specifications MHC Multimers

- Very sensitive due to high numbers of MHCs
- Available with FITC, APC or PE label
- Many different alleles from human, mouse and monkey

Applications

- Detection and isolation of antigen-specific T cells in fluid cell samples
- *In vitro* staining of tissue sections to visualize antigen-specific T cells

Multimer Collections

Product Name	No. of MHC Multimers	Product Code	Organism	Protein ID (Uni-Prot)
Cancer-Testis Antigens Collection 1	3 (plus control)	RX02	Homo sapiens	Various (details upon request)
CMV Package -APC, -FITC or -PE	8 (plus control)	CMV-Pack-APC CMV-Pack-FITC CMV-Pack-PE	Human cytomegalovirus	Various (details upon request)
EBV Package 1 .APC, -FITC or -PE	4 (plus control)	RX05-APC RX05-FITC RX05-PE	Epstein-Barr virus	Various (details upon request)
Melanoma Collection 1	6 (plus control)	RX01	Homo sapiens	Various (details upon request)
Virus Collection 1 -APC, -FITC or -PE	4 (plus control)	RX03-APC RX03-FITC RX03-PE	BKV, EBV, HCMV, Influenza	Various (details upon request)

RepliTope™ Peptide Microarrays

RepliTope™ Peptide Microarrays display synthetic peptides derived from peptide scans through single or several antigens (or even whole proteomes) and random peptide libraries on glass slides. They are ready-to-use for incubation with antibodies, serum, lysate or other biological samples. Among the large variety of applications are antibody profiling, seromarker identification, monitoring of humoral immune responses (e.g. during clinical trials), elucidation of protein-protein interactions and neutralizing antibody actions.

Specifications of JPT's RepliTopes™

- Microarray size: 3 x 1 inches (75 x 25 mm)
- Each peptide is deposited in several copies
- Layout fully compatible with automatic incubation stations
- Readout via fluorescence
- Purified peptides are immobilized directed and chemoselectively!

Applications

- Immune monitoring
- Seromarker discovery
- Antibody epitope discovery/mapping
- Protein-protein interaction studies

→ We offer a comprehensive peptide microarray assay service including incubation with your samples, analysis and data interpretation.

Please inquire at peptide@jpt.com!

Tumor Associated Antigens

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Human (CEA)	173	RT-CEA	Homo sapiens	P06731
Human (Claudin-6)	53	RT-Cl-6	Homo sapiens	P56747
Human (Cyclin-B1)	106	RT-CYC_B1	Homo sapiens	P14635
Human (ErbB2_ECD)	172	RT-ErbB2_ECD	Homo sapiens	P04626
Human (ErbB2_ICD)	146	RT-ErbB2_ICD	Homo sapiens	P04626
Human (Histone H1.2)	51	RT-H1	Homo sapiens	P16403
Human (Histone H4)	23	RT-H4	Homo sapiens	P62805
Human (HLA class I Ig-like C1 type domain)	19	RT-C1	Homo sapiens	P30455
Human (MAGEA1)	75	RT-MAGEA1	Homo sapiens	P43355
Human (MAGEA3)	76	RT-MAGEA3	Homo sapiens	P43357
Human (MAGEA4)	77	RT-MAGEA4	Homo sapiens	P43358
Human (Mammaglobin A)	21	RT-MamA	Homo sapiens	Q13296
Human (Melan-A/MART-1)	27	RT-MelA	Homo sapiens	Q16655
Human (Melanocyte protein Pmel 17 gp100)	163	RT-GP100	Homo sapiens	P40967



Your RepliTopes™ are delivered together with product datasheets, .gal-file for allocation and application protocol.

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Human (Myc protein)	107	RT-cMyc	Homo sapiens	P01106
Human (NY-ESO-1 & p53 - Multiwell-Array)	140	RT-MW-001	Homo sapiens	Various (sequences online)
Human (NY-ESO-1)	44	RT-0016	Homo sapiens	P78358
Human (P53)	96	RT-p53	Homo sapiens	Q2XN98
Human (Prame/OIP4)	125	RT-OIP4	Homo sapiens	P78395
Human (Prostate-specific antigen PSA)	63	RT-PSA	Homo sapiens	P07288
Human (SOX-2)	77	RT-SOX-2	Homo sapiens	P48431
Human (SSX2)	45	RT-SSX2	Homo sapiens	Q16385
Human (Stromelysin-3, MMP11)	120	RT-MMP11	Homo sapiens	P24347
Human (TCRgamma alternate reading frame protein TARP)	12	RT-TARP	Homo sapiens	A2JGV3
Human (Tyrosinase)	117	RT-Tyr_H	Homo sapiens	P14679
Human (Tyrosinase-related protein 2)	127	RT-TRP-2	Homo sapiens	P40126
Human (WT1/WT33)	110	RT-0017	Homo sapiens	P19544
Mouse (Tyrosinase)	117	RT-Tyr_M	Mus musculus	P11344
Pongo abelii (Survivin)	33	RT-Survivin	Pongo abelii	Q5RAH9
Mouse (Tyrosinase)	117	RT-Tyr_M	Mus musculus (mouse)	P11344
Pongo abelii (Survivin)	33	RT-Survivin	Pongo abelii (Sumatran orangutan)	Q5RAH9

Infectious Diseases' Antigens

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
BKV (capsid protein VP2)	85	RT-BKV-VP2	BK polyomavirus	P03094
BKV (capsid protein VP2, isoform VP3)	56	RT-BKV-VP3	BK polyomavirus	P03094-2
BKV (coat protein VP1)	88	RT-0004	BK polyomavirus	P14996
BKV (large T antigen)	170	RT-0005	BK polyomavirus	P14999
BKV (small T antigen)	41	RT-BKV-STA	BK polyomavirus	P03082
EBV (BMLF1)	117	RT-EBV-BMLF1	Epstein-Barr virus (HHV-4)	Q04360
EBV (BMRF1)	99	RT-EBV-BMRF1	Epstein-Barr virus (HHV-4)	P03191
EBV (BRLF1)	149	RT-EBV-BRLF1	Epstein-Barr virus (HHV-4)	P03209
EBV (BZLF1)	59	RT-EBV-BZLF1	Epstein-Barr virus (HHV-4)	P03206
EBV (EBNA1)	158	RT-EBV-EBNA1	Epstein-Barr virus (HHV-4)	P03211
EBV (EBNA2)	119	RT-EBV-EBNA2	Epstein-Barr virus (HHV-4)	P12978
EBV (EBNA3a)	234	RT-EBV-EBNA3a	Epstein-Barr virus (HHV-4)	P12977
EBV (EBNA3b)	234	RT-EBV-EBNA3b	Epstein-Barr virus (HHV-4)	Q1HVG4
EBV (EBNA3c)	265	RT-EBV-EBNA3c	Epstein-Barr virus (HHV-4)	Q69140
EBV (EBNA-LP)	124	RT-EBV-EBNA-LP	Epstein-Barr virus (HHV-4)	Q8AZK7
EBV (GP350/GP340)	224	RT-EBV-GP350/GP340	Epstein-Barr virus (HHV-4)	P03200
EBV (LMP1)	94	RT-EBV-LMP1	Epstein-Barr virus (HHV-4)	P03230
EBV (LMP2)	122	RT-EBV-LMP2	Epstein-Barr virus (HHV-4)	P13285
HAdV-3 (hexon protein)	234	RT-HAdV3	Human adenovirus 3 (HAdV-3)	P36849
HAdV-5 (penton protein)	140	RT-HAdV5	Human adenovirus 5 (HAdV-5)	P12538
VACV (Cell surface-binding protein, MVA105L)	74	RT-MVA-105L	Vaccinia virus (strain Ankara)	O57211

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
VACV (Host range protein 2, MVA018L)	35	RT-MVA-018L	Vaccinia virus (strain Ankara)	P68598
VACV (Major core protein P4a, MVA 121L)	112+108	RT-MVA-121L	Vaccinia virus (strain Ankara)	O57223
VACV (MVA 074R)	106	RT-MVA-074R	Vaccinia virus (strain Ankara)	O57196
VACV (MVA093L)	79	RT-MVA-093L	Vaccinia virus (strain Ankara)	O57206
VACV (MVA189R)	45	RT-MVA-189R	Vaccinia virus (strain Ankara)	O57265

RepliTope™ Antigen Collections

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
BKV	440	RT-HD-BKV	BK polyomavirus	Various (sequences online)
Breast Cancer	494	RT-HD-BrC	Homo sapiens	Various (sequences online)
EBV	1998	RT-HD-EBV	Epstein-Barr virus	Various (sequences online)
Melanoma	384	RT-HD-Melonama	Homo sapiens	Various (sequences online)
Vaccinia Virus	559	RT-HD-Vaccinia	Vaccinia virus	Various (sequences online)

RepliTope™ Microarray Incubation Kit

The RepliTope™ Microarray Incubation Kit has been developed to facilitate manual incubation of peptide microarrays with human antibodies or serum. All components have been tested and validated by JPT's scientists. The kit is designed for usage with up to four peptide microarrays and compatible with RepliTope™ and custom PepStar™ Peptide Microarrays.



The RepliTope™ Microarray Incubation Kit provides you with everything you need for incubation of peptide microarrays.

Components of RepliTope™ Microarray Incubation Kit

- Peptide Microarray Detection Antibody (Anti IgG Human, Dylight650 labeled)
- Peptide Microarray Blocking Buffer
- Peptide Microarray Washing Buffer Tablet
- Peptide Microarray Incubation Chamber (for four incubations in parallel)
- Peptide Microarray Dummy Slides & Spacer for sample incubation

Product Name	No. of Incubations	Product Code	Species of Secondary Antibody	Label of Secondary Antibody
Peptide Microarray Incubation Kit	4	RT_Kit_01	Mouse (anti IgG human)	Dylight 650

Antibody Epitope Profiling and Biomarker Discovery Service

JPT's incubation service for peptide array technologies PepSpot™ and PepStar™ and Peptide ELISA enable efficient profiling of B-cell epitopes and serological screening for novel peptide binders and biomarkers. The comprehensive assay service includes profiling and screening with your antibody or enzyme preparation or patient samples, data evaluation and a detailed report.

Specifications

- Suggestions on array platform and controls to be used
- Synthesis of peptides and generation of peptide arrays
- Incubation of peptide arrays or ELISA with your protein/patient sample
- Data evaluation and Interpretation
- Comprehensive and confidential report

Applications

- Identification of seromarkers for cancer, infectious & autoimmune diseases and allergies
- Peptide biomarker validation
- Multiplexed immune monitoring in clinical trials
- Elucidation of antibody signatures in vaccination studies
- Monitoring of humoral immune responses
- Identification of novel vaccine targets

Please inquire for further information and pricing: peptide@jpt.com

Histone Code Peptides, Microarrays & ELISA

JPT compiled a unique library of synthetic post-translationally modified and unmodified human histone peptides (H1, H2A, H2B, H3 and H4). Corresponding peptides are now available immobilized on peptide microarrays or in ELISA plates and as purified individual peptides. Many peptides carry post-translational modifications in various combinations representing all potential variants. Modifications are: Lys[acetylation, (mono-, di-, tri-) methylation, butyrylation, propylation, succinylation, malonylation]; Arg[mono-methylation, di-methylation (symmetric and asymmetric), Citrullin, and Ser, Thr, Tyr [phosphorylation].

Histone Code Microarrays



The Histone Code Microarray displays an extensive peptide library covering all known natural variants of histone sequences and modifications.

Specifications of Histone Code Microarrays

- Displays 3868 histone peptides with and without PTMs
- Enables mapping of protein-histone interactions with unprecedented resolution
- Applicable to a wide range of samples
- Also available including incubation and analysis service

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Histone Code Peptide Microarrays	3868	His_MA_01	Homo sapiens (Human)	Various (sequences online)

Histone Code Analysis Service

Based on our histone code peptide microarray we offer our unique histone code analysis services.

Specifications

- Incubation with histone code microarray & fluorescence read-out
- Secondary antibody control
- Raw data analysis
- Summary of results and visualization

Applications

- Antibody specificity profiling including post-translational modifications
- Identification of preferred epigenetic marks of histone readers
- Enzymatic activity profiling including PTMs
- Mapping and validation of protein-histone interactions

Histone Code Peptide ELISA



Enzyme-linked immunosorbent assay (ELISA), is a common analytical and highly sensitive immunological assay, now available for screening of post-translational modification enzymes.

Specifications of Histone Code Peptide ELISA

- For rapid screening of PTM-specific antibodies or histone modifying enzymes
- Displays 94 20-meric peptides immobilized in 96 well plate
- Also available including incubation and analysis service

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Histone Code Peptide ELISA	94	PE_His_01	Homo sapiens (Human)	Various (sequences online)

Histone Code Peptides

Specifications of Histone Code Peptides ELISA

- Purified, high quality biotinylated or non-biotinylated peptides
- Qualified by HPLC-MS
- Freeze-dried aliquots (10 nmol) for increased shelf stability



JPT provides almost 400 different histone peptides as off-the-shelf products.

Biotinylated Histone Peptides

Product Name	No. of Modified Peptide Variants*	Product Code	Organism	Protein ID (Uni-Prot)
H2A 1:20 (H2A.1\1BE\1D\1H\1J)	5	SP-His_0001	Homo sapiens (Human)	POC0S8, P20671, P04908, Q99878, Q96KK5
H2A 108:127 (H2A.1J)	4	SP-His_0009	Homo sapiens (Human)	Q99878
H2A 108:127 (H2A.1\1BE\1C\1D\1H\2A\3)	4	SP-His_0010	Homo sapiens (Human)	POC0S8, Q7L7L0, P20671, Q6F113, P04908, Q93077, Q96KK5
H2A 110:129 (H2A.1\1BE\1C\1D\2A\3)	4	SP-His_0013	Homo sapiens (Human)	POC0S8, Q7L7L0, P20671, Q6F113, P04908, Q93077
H2A 19:38 (H2A.1\1BE\1C\1D\1H\1J\2A\2B\2C\3J)	2	SP-His_0277	Homo sapiens (Human)	POC0S8, Q7L7L0, P20671, Q6F113, Q16777, P04908, Q8IUE6, Q93077, Q99878, Q96KK5, Q9BTM1
H2A 85:104 (H2A.1\1D\1H\1J\2A\2CJ)	4	SP-His_0280	Homo sapiens (Human)	POC0S8, P20671, Q6F113, Q16777, Q99878, Q96KK5, Q9BTM1
H2B 1:20 (H2B.1\1J\1K\2E\FS)	16	SP-His_0016	Homo sapiens (Human)	P62807, P57053, P06899, Q16778, O60814
H2B 22:41 (H2B.1B\1J\1O\2E)	3	SP-His_0028	Homo sapiens (Human)	P06899, P23527, Q16778, P33778
H2B 22:4 (H2B.1\1D\1H\1K\1L\1M\1N\2F)	3	SP-His_0029	Homo sapiens (Human)	P62807, Q99880, Q99879, Q93079, Q99877, Q5QNW6, P58876, O60814
H2B 22:41 (H2B.FS)	3	SP-His_0030	Homo sapiens (Human)	P57053
H2B 42:61 (H2B.1\1B\1D\1H\1J\1K\1L\1M\1N\1O\2E\2F\3B\FS)	4	SP-His_0041	Homo sapiens (Human)	P62807, Q99880, Q99879, Q93079, Q99877, P57053, P06899, P23527, Q16778, P33778, Q5QNW6, Q8N257, P58876, O60814

* JPT offers the largest variety of histone peptides. Actually, too many for this catalog.

Therefore, the table below only shows the native unmodified peptides.

The number of available modified peptides for each native sequence is indicated in column 2.

For details please check at www.shop.jpt.com

More Biotinylated Histone Peptides

Product Name	No. of Modified Peptide Variants*	Product Code	Organism	Protein ID (Uni-Prot)
H2B 106:125 (H2B.1\1A\1B\1D\1H\1L\1M\1N\1O\2E\2F\3B)	4	SP-His_0045	Homo sapiens (Human)	P62807, Q99880, Q99879, Q93079, Q99877, P23527, Q16778, P33778, Q5QNW6, Q8N257, Q96A08, P58876
H2B 106:125 (H2B.1J\1K\1F)	4	SP-His_0049	Homo sapiens (Human)	P57053, P06899, O60814
H3 1:20 (H3.1\1t\2\3\3C)	18	SP-His_0054	Homo sapiens (Human)	Q71DI3, P84243, P68431, Q6NXT2, Q16695
H3 23:42 (H3.1\2)	16	SP-His_0100	Homo sapiens (Human)	Q71DI3, P68431
H3 23:42 (H3.1t)	21	SP-His_0101	Homo sapiens (Human)	Q16695
H3 23:42 (H3.3)	28	SP-His_0102	Homo sapiens (Human)	P84243
H3 23:42 (H3.3C)	28	SP-His_0103	Homo sapiens (Human)	Q6NXT2
H3 43:62 (H3.1\1t\2\3\3C)	3	SP-His_0183	Homo sapiens (Human)	Q71DI3, P84243, P68431, Q6NXT2, Q16695
H3 63:82 (H3.1\2\3)	5	SP-His_0189	Homo sapiens (Human)	Q71DI3, P84243, P68431
H3 63:82 (H3.1t)	5	SP-His_0190	Homo sapiens (Human)	Q16695
H3 105:124 (H3.1\2\3\3C)	4	SP-His_0201	Homo sapiens (Human)	Q71DI3, P84243, P68431, Q6NXT2
H3 105:124 (H3.1t)	3	SP-His_0202	Homo sapiens (Human)	Q16695
H3 115:134 (H3.1\1t\2\3\3C)	1	SP-His_0553	Homo sapiens (Human)	Q71DI3, P84243, P68431, Q6NXT2, Q16695
H4 14:33	7	SP-His_0244	Homo sapiens (Human)	P62805
H4 44:63	2	SP-His_0252	Homo sapiens (Human)	P62805
H4 68:87	3	SP-His_0259	Homo sapiens (Human)	P62805
H4 81:100	3	SP-His_0261	Homo sapiens (Human)	P62805

Non-Biotinylated Histone Peptides

Product Name	No. of Modified Peptide Variants*	Product Code	Organism	Protein ID (Uni-Prot)
H2A 1:17 Ac-(H2A.1\1BE\1D\1H\1J)	7	SP-His_nb_001	Homo sapiens (Human)	POC0S8, P20671, P04908, Q99878, Q96KK5
H2A 1:17 (H2A.1\1BE\1D\1H\1J)	14	SP-His_nb_002	Homo sapiens (Human)	POC0S8, P20671, P04908, Q99878, Q96KK5
H2A 107:123 (H2A.1\1A\1BE\1C\1D\1H\1J\2A\2B\2C\3)	2	SP-His_nb_022	Homo sapiens (Human)	POC0S8, Q7L7L0, P20671, Q6F113, Q16777, P04908, Q8IUE6, Q93077, Q99878, Q96QV6, Q96KK5
H2B 1:17 (H2B.1\1J\1K\2E\1F)	5	SP-His_nb_024	Homo sapiens (Human)	P62807, P57053, P06899, Q16778, O60814
H2B 8:24 (H2B.1\1D\1H\1J\1K\1L\1N\1O\2E\3B\1F)	5	SP-His_nb_029	Homo sapiens (Human)	P62807, Q99880, Q93079, Q99877, P57053, P06899, P23527, Q16778, Q8N257, P58876, O60814
H3 1:17 (H3.1\1t\2\3\3C)	35	SP-His_nb_034	Homo sapiens (Human)	Q71DI3, P84243, P68431, Q6NXT2, Q16695
H3 14:30 (H3.1\2\3)	20	SP-His_nb_069	Homo sapiens (Human)	Q71DI3, P84243, P68431
H3 23:39 (H3.1\2)	27	SP-His_nb_089	Homo sapiens (Human)	Q71DI3, P68431
H3 33:49 (H3.1\1t\2\3)	2	SP-His_nb_116	Homo sapiens (Human)	Q71DI3, P84243, P68431, Q16695
H3 51\52:67\68 (H3.1\1t\2\3\3C)	9	SP-His_nb_118	Homo sapiens (Human)	Q71DI3, P84243, P68431, Q6NXT2, Q16695
H3 71:87 (H3.1\2)	5	SP-His_nb_127	Homo sapiens (Human)	Q71DI3, P68431
H4 1:17 Ac-(H4)	8	SP-His_nb_132	Homo sapiens (Human)	P62805
H4 1:17 (H4)	14	SP-His_nb_133	Homo sapiens (Human)	P62805
H4 10:26 (H4)	6	SP-His_nb_155	Homo sapiens (Human)	P62805

* JPT offers the largest variety of histone peptides. Actually, too many for this catalog. Therefore, the table below only shows the native unmodified peptides. The number of available modified peptides for each native sequence is indicated in column 2. For details please check at www.shop.jpt.com

SpikeTides™ Proteotypic Peptide Standards

SpikeTides™ are tailored proteotypic peptides offered as stable isotope labeled peptides (SIL peptides) or non-labeled (light peptides) and with optional absolute quantification, barcoding, pooling or post-translational modifications. SpikeTides™ proteotypic peptides are cost efficient and reliable peptide standards for mass spectrometry-based proteomics assays (e.g. MRM or SRM assays).

Specifications of SpikeTides™

	Stable Isotope Labeled	Quantified by QTag	Quantified by AAA	PTMs available	Amount/peptide
SpikeTides™				x	50 nmol
SpikeTides™_L	x			x	10 - 30 nmol
SpikeTides™_TQL	x	x		x	5 x 1 nmol
Maxi SpikeTides™				x	1 mg
Maxi SpikeTides™_L	x			x	1 mg
Maxi SpikeTides™_TQL	x	x		x	1 mg
Maxi SpikeTides™_AAA	x		x	x	1 mg

Applications

- Optimization and validation of mass spectrometry-based proteomics assays
- Relative and absolute quantification of proteins
- Identification of predominant peptide fragments
- Develop kits to quantify entire proteomic pathways

SpikeMix™ & SpikeTides™ Sets

SpikeMix™ peptide pools and SpikeTides™ Sets are inexpensive and fast sources of proteotypic peptides. JPT's portfolio includes stable isotope-labeled or light, mixed or individual and absolutely quantified peptide standards for mass spectrometry-based proteomics (i.e. MRM/ SRM assays). The heavy labeled peptides contain stable isotope-labeled peptides with C-terminal heavy arginine (U-13C6; U-15N4) or lysine (U-13C6; U-15N2).

We recommend to check trypsin cleavage efficiency for mass spectrometry-based proteomics assays by our TrypCheck Kit. It is an easy-to-use fluorescent peptide kit, that enables you to estimate efficiency & reproducibility of a tryptic sample preparation.

Specifications of SpikeMix™

- 50-150 pmol per peptide (unless indicated else)
- Light or isotopically labeled (C-terminal Arg U-13C6; U-15N4 or Lys U-13C6; U-15N2) peptides
- For proteomics assays

For further information please visit our website (www.jpt.com) or contact us!



SpikeTides™ Sets TAA are delivered in 96 well plates with documentation and protocol.

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
SpikeMix™ ABRF (cross-species standard) - 10pmol	1000	SPT-ABRF-POOL-L-10pm	Homo sapiens, Mus musculus	Various (see online)
SpikeMix™ ABRF (cross-species standard) - 1pmol	1000	SPT-ABRF-POOL-L-1pm	Homo sapiens, Mus musculus	Various (see online)
SpikeMix™ Cytokines (Human) - heavy	461	SPT-CYT-POOL-L-hum	Homo sapiens	Various (see online)
SpikeMix™ Cytokines (Human) - light	461	SPT-CYT-POOL-hum	Homo sapiens	Various (see online)
SpikeMix™ Cytokines (Mouse) - heavy	383	SPT-CYT-POOL-L-mou	Mus musculus	Various (see online)
SpikeMix™ TAA - heavy	252	SPT-TAA-POOL-L	Homo sapiens	Various (see online)
SpikeMix™ TAA - light	252	SPT-TAA-POOL	Homo sapiens	Various (see online)
SpikeMix™ Cytokines (Bovine) - heavy	224	SPT-CYT-POOL-L-bov	Bos taurus	Various (see online)
SpikeMix™ Cytokines (White-tufted-ear marmoset) - heavy	119	SPT-CYT-POOL-L-cal	Callithrix jacchus	Various (see online)
SpikeMix™ Cytokines (Dog) - heavy	144	SPT-CYT-POOL-L-can	Canis familiaris	Various (see online)
SpikeMix™ Cytokines (Cynomolgus monkey) - heavy	141	SPT-CYT-POOL-L-cyn	Macaca fascicularis	Various (see online)
SpikeMix™ Cytokines (Guinea Pig) - heavy	134	SPT-CYT-POOL-L-gui	Cavia porcellus	Various (see online)
SpikeMix™ Cytokines (Sheep) - heavy	182	SPT-CYT-POOL-L-ovi	Ovis aries	Various (see online)
SpikeMix™ Cytokines (Rabbit) - heavy	123	SPT-CYT-POOL-L-rab	Oryctolagus cuniculus	Various (see online)
SpikeMix™ Cytokines (Xenopus) - heavy	54	SPT-CYT-POOL-L-xen	Xenopus laevis	Various (see online)
SpikeMix™ Cytokines (Rat) - heavy	226	SPT-CYT-POOL-L-rat	Rattus norvegicus	Various (see online)
SpikeMix™ Cytokines (Rhesus macaque) - heavy	156	SPT-CYT-POOL-L-rhe	Macaca mulatta	Various (see online)
SpikeMix™ Cytokines (Zebrafish) - heavy	109	SPT-CYT-POOL-L-zeb	Danio rerio	Various (see online)
SpikeMix™ Peptide Hormones (Human) - heavy	> 500	SPT-PH-POOL-L-hum	Homo sapiens	Various (upon request)
SpikeTides™ Set Histone Code (Histone H3) - heavy - quantified	37	SPT-HC-TQL-h3	Homo Sapiens	Various (upon request)
SpikeTides™ Set Metabolic Enzymes - heavy - quantified	51	SPT-ME-TQL-hum	Homo sapiens	Various (upon request)
TrypCheck Kit Fluorescence	4	TrypCheck-F	Designed peptides	None

Enzyme Substrate Microarrays

Enzyme Substrate Microarrays are comprised of synthetic peptide substrates containing annotated phosphorylation sites, acetylated or unmodified sites of post-translational modifications, scans through known substrate proteins or random sequences deposited on glass slides. You can use them for incubation with your enzymes of interest, cell lysates or patient samples to identify enzyme substrates and consensus sequences, profile enzyme specificity, determine phosphorylation sites within a protein or to validate enzyme inhibitors.



Your Enzyme Substrate Microarrays are accompanied by datasheets, gal-files for allocation, application protocol and spacers/dummy slides needed for manual incubation.

Specifications of JPT's Enzyme Substrate Microarrays

- Peptides covalently and chemoselectively immobilized via N-terminus and a hydrophilic spacer
- Microarray size: 3 x 1 inches (75 x 25 mm)
- Each peptide is deposited in several copies onto each slide
- Layout fully compatible to automatic incubation stations
- Readout via fluorescently or radioisotopically labeled agents

Applications

- Phosphosite detection
- Substrate identification
- Detection of acetylation or methylation sites
- Enzyme profiling
- Determination of consensus sequences
- Validation of enzyme inhibitors

For further information please visit our website (www.jpt.com) and have a look at our Proteomics brochure!

Kinase & Phosphatase Substrate Microarrays

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Annotated PhosphoSites-Tyr-Phosphatase	> 6000	PHOS-MA-PY	Homo sapiens (Human)	Various (details upon request)
Annotated Phosphosites-Kinase	720	KIN-MA-PhK	Homo sapiens (Human)	Various (details upon request)
Random Library Serine-Kinase	1536	KIN-MA-RLYS	None (designed peptides)	Various (details upon request)
Random Library Threonine-Kinase	1536	KIN-MA-RLT	None (designed peptides)	Various (details upon request)
Random Library Tyrosine-Kinase	1536	KIN-MA-RLY	None (designed peptides)	Various (details upon request)

Acetylome - Acetyltransferase & Deacetylase Microarrays

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Acetylome - Deacetylase Microarray	5599 acetylated peptides (plus 384 control peptides)	AT-MA_01	Homo sapiens (Human)	Various (sequences online)
Acetylome - Acetyltransferase Microarray	5599 peptides (plus 384 control peptides)	AT-MA_02	Homo sapiens (Human)	Various (sequences online)



All human acetylation sites on one microarray for efficient screening of Acetyltransferases, Deacetylases and others..

Phosphorylation Site Detectors

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
14-3-3 zeta	79	PD-001	Homo sapiens	P63104
AKT1	157	PD-002	Homo sapiens	P31749
BCL 2	79	PD-003	Homo sapiens	Q92934
B-Myb	345	PD-005	Homo sapiens	P10244
CARS	149	PD-061	Homo sapiens	Q13427
CD5 antigen	41	PD-006	Homo sapiens	P06127
Cdc25C	155	PD-007	Homo sapiens	P30307
CHK2	178	PD-008	Homo sapiens	O96017
c-jun	160	PD-009	Homo sapiens	P05412
Connexin 43	94	PD-011	Homo sapiens	P17302
Crystallin B	82	PD-012	Homo sapiens	P02511
Cyp11	66	PD-013	Homo sapiens	P30405
Cyp18.1	149	PD-014	Homo sapiens	Q9H2H8
Cyp18.2	152	PD-015	Homo sapiens	Q9Y536
Cyp18.6	52	PD-016	Homo sapiens	Q9H2H8
Cyp19.2	56	PD-017	Homo sapiens	O43447
Cyp23	66	PD-018	Homo sapiens	P23284
Cyp23a	67	PD-062	Homo sapiens	P45877
Cyp33	97	PD-063	Homo sapiens	Q9UNP9
Cyp40	120	PD-064	Homo sapiens	Q08752
Cyp57	160	PD-065	Homo sapiens	Q8WUA2
Cyp60	170	PD-066	Homo sapiens	Q13356
Cyp73	212	PD-067	Homo sapiens	Q96BP3
CYPA	77	PD-019	Homo sapiens	P62937
CypL1	52	PD-068	Homo sapiens	Q9Y3C6
CypL6	100	PD-069	Homo sapiens	Q8IXY8
E2F	143	PD-020	Homo sapiens	Q01094
EpoR	75	PD-021	Homo sapiens	P19235
FKBB12.6	32	PD-022	Homo sapiens	P68106
FKBP12	32	PD-023	Homo sapiens	QOVDC6
FKBP13	44	PD-024	Homo sapiens	P26885
FKBP19	63	PD-026	Homo sapiens	Q9NYL4
FKBP22	67	PD-027	Homo sapiens	Q9NWM8

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
FKBP23	83	PD-028	Homo sapiens	Q9Y680
FKBP25	71	PD-029	Homo sapiens	Q00688
FKBP36	79	PD-030	Homo sapiens	O75344
FKBP37	80	PD-031	Homo sapiens	O00170
FKBP38	86	PD-032	Homo sapiens	Q14318
FKBP44	94	PD-033	Homo sapiens	Q9NZN9
FKBP51	112	PD-034	Homo sapiens	Q13451
FKBP52	112	PD-035	Homo sapiens	Q02790
FKBP63	140	PD-070	Homo sapiens	O95302
FKBP65	144	PD-071	Homo sapiens	Q96AY3
GAB1	342	PD-036	Homo sapiens	Q13480
LKB1	141	PD-038	Bos taurus	Q15831
MDM2	161	PD-040	Bos taurus	Q00987
MeCP2	159	PD-041	Homo sapiens	P51608
NFATP	305	PD-043	Homo sapiens	Q13469
NKTK	208	PD-072	Homo sapiens	P30414
Nucleophosmin1	95	PD-044	Homo sapiens	P06748
p53	96	PD-045	Homo sapiens	P04637
PAK1	181	PD-046	Homo sapiens	Q13153
Par17	48	PD-073	Homo sapiens	Q9Y237-2
Parvulin14	41	PD-047	Homo sapiens	Q9Y237
PDK1	182	PD-048	Homo sapiens	O15530
Phas-I	54	PD-049	Homo sapiens	Q13541
Pin 1	76	PD-050	Homo sapiens	Q13526
PTEN	196	PD-052	Digitalis lanata	P60484
PTMA	50	PD-053	Homo sapiens	Q8TBK9
PTPA	78	PD-074	Homo sapiens	Q15257-2
PTPN1	142	PD-054	Homo sapiens	P18031
RAD9	96	PD-055	Homo sapiens	Q99638
RAF1	319	PD-056	Homo sapiens	P04049
RBL2	377	PD-057	Homo sapiens	Q08999
S6 protein	80	PD-058	Homo sapiens	P62753
Tie 2	172	PD-060	Homo sapiens	Q02763

Enzyme Profiling Service

Our comprehensive Peptide Microarray Assay Service is applicable for purified enzymes such as kinases, proteases, histone deacetylases, acetyltransferases and others, patient samples and cell lysates.

Specifications

- Incubation of enzyme substrate microarray & read-out
- Secondary antibody control
- Raw data analysis
- Summary of results and visualization

Applications

- Detect enzymatic activities from biological and patient samples
- Identify enzyme substrates
- Test antibody preparations
- Screen entire proteomes for modification sites

Enzyme Substrate Sets

Enzyme Substrate Sets are ready-to-use peptidic substrates for kinases, phosphatases and proteases delivered freeze-dried in microtiter plates for use with standard laboratory equipment. Optimized to be compatible with a variety of samples (purified enzymes, cell lysates and others) they provide you with the possibility to test many substrates in parallel and under physiological conditions. You can identify substrates and consensus sequences, profile enzyme specificity, validate enzyme inhibitors and much more.



Enzyme Substrate Sets are delivered in ready-to-use microtiter plates accompanied by datasheets, application protocol and excel-file for allocation.

Specifications of JPT's Enzyme Substrate Sets

- Delivered in 384 well microtiter plates
- Protease Substrate Sets: internally quenched substrate peptides (75 pmol each)
- Kinase Substrate Sets: biotinylated substrate peptides (250 pmol each)
- Phosphatase Substrate Sets: phosphorylated substrate peptides (250 pmol each)
- Purity >95% for each peptide (LC-MS)

For further information please visit our website www.jpt.com

Kinase Substrate Sets

Applications: Phosphite detection, Substrate identification, Determination of kinase consensus sequences

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
General Kinase Substrate Set	720	KSS-B-720-250	Homo sapiens (Human)	Various (sequences online)
Tyrosine Kinase Substrate Set	145	KSS-B-145-250	Homo sapiens (Human)	Various (sequences online)

Phosphatase Substrate Sets

Applications: Phosphite detection, Substrate identification, Determination of phosphatase consensus sequences

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Uni-Prot)
Phosphatase Substrate Set	360	PhSS-360-250	Homo sapiens (Human)	Various (sequences online)
Tyrosine-Phosphatase Substrate Set	360	PhSS-Y-360-250	Homo sapiens (Human)	Various (sequences online)

Protease Substrate Sets

Applications: Cleavage site detection, Substrate identification, Determination of protease consensus sequences, Identification of protease contaminations

Product Name	No. of Peptides	Product Code	Organism	Protein ID (Swiss-Prot)
Caspase Substrate Set	4x 88	PrSS-C88-75	Homo sapiens (Human)	Various (sequences online)
Protease Substrate Set	360	PrSS-360-75	Homo sapiens (Human)	Various (sequences online)

Ordering Information

Placing an order

You can place your order with JPT by:

- Using our online order form at www.shop.jpt.com
- Sending an email to peptide@jpt.com to obtain a quote
- Sending a fax to +49-30-6392-7888 (or toll free within the USA only: +1.888.578.2666)

Shipping

- Shipment within Germany: 10 € (chilled: 80 €)
- Shipment to other European countries: 50 € (chilled: 150 €)
- Shipment to the USA & Canada: 50 US\$ (chilled: 290 US\$)
- Shipment to the Rest of World: 80 US\$ (chilled: 290 US\$)

Delivery time

Orders are usually processed within 24 hours. Most products are ready to be shipped within 1 business day. The current delivery time will be indicated in the order confirmation we will send you.

The average time for shipping is listed below:

- Shipment within Germany: 1 day
- Shipment to EU countries: 2 days
- Shipment to the USA & Canada: 2-3 days
- Shipment to other countries 3-4 days

INCOTERMS 2010

DAP shipping point

Payment

We accept payments via wire transfer, checks or credit cards. Payment is due within 20 days (within EU) or 30 days (outside EU). We will send the invoice to your billing address.

Sales taxes / VAT / MwSt.

All prices do not include tax. For shipment within Germany 19% MwSt will be included in the invoice. For shipment within EU-countries you will need to provide the valid VAT number of your institution with your order. International customers should note that all duties, import fees, and taxes are to be paid by the customer.

Price changes

Product prices are subject to change without warning. We apologize in advance for any inconvenience this may cause.

Returns

Return of products will be accepted with prior notification via email (peptide@jpt.com). Please contact us for return shipping instructions and to receive an authorization for return. Please send your unused/unopened return product, along with a copy of your original receipt to our head office.

International customers

We are happy to accept orders from and ship to all countries.

Terms & Conditions

The following general terms and conditions ("Terms and Conditions") apply to all agreements for sale and/or for services that are entered into between JPT Peptide Technologies GmbH, Berlin ("JPT") and its customer ("Customer") with the view of Customer either purchasing any of the products manufactured by JPT and/or requesting any of the services offered by JPT (collectively "Products and Services"). By placing an order for such Products and Services, Customer expressly agrees to the following Terms and Conditions. Any contradictory or additional terms and conditions contained in the purchase order or any other document submitted by Customer are herewith expressly rejected and will have no legal effect.

Orders

Orders for Products and Services have to be made via our webshop or in writing by letter, facsimile or e-mail and are subject to acceptance by JPT, such acceptance at the sole discretion of JPT to be made either in the form of a written confirmation by letter, facsimile or e-mail or by immediately effecting the delivery of Products and Services to Customer. Orders are firm and binding for Customer for a time period of fourteen (14) days. JPT will not accept any orders of mouth unless confirmed by Customer in writing by letter, facsimile or e-mail to be received by JPT within 3 days after the respective order of mouth was initially communicated to JPT. JPT does not require any minimum order volume.

Prices

JPT will invoice its Products and Services according to the prices quoted in the relevant price lists in force at the date of Customer placing the respective order for such Products and Services. JPT's current price lists will be provided to Customer upon Customer's request. For products and services not covered by the current price lists, upon specific request of Customer, JPT may provide Customer with an individual written price quote. Unless otherwise indicated, prices in any price lists or individual written price quote are quoted in Euro and do not include any taxes, including value added tax, which will be invoiced to Customer at the respectively applicable rate. Prices shown in an individual written price quote to Customer are firm for a period of thirty days. If a purchase order is received by JPT after expiration of this period JPT will inform Customer immediately in a written order confirmation, if the price has increased with respect to the price quoted, which may be rejected by Customer on the grounds of the increased price within ten (10) business days after receipt of such written order confirmation.

Payment Terms

Customer shall pay the amount invoiced by JPT within 20 days (Europe) or 30 days (non-Europe) after receipt of a respective invoice net to the bank account of JPT as shown on the invoice. Customer is not entitled to set-off the invoiced amount against any claims Customer may have against JPT unless such counterclaim of Customer is undisputed or legally

binding due to an unappealable court decision. Pre-payments may be required in special circumstances for initial or large orders with completion of credit applications. Any required pre-payments will be shown either on the individual written price quote to Customer or, if no such individual written price quote is made, on the written order confirmation that JPT provides to Customer.

Reservation of Ownership

The delivered Products remain the property of JPT until full payment of the purchase price, including any additional expenses for delivery, has been made by Customer.

Delivery

Determination of the manner of shipping and of the carrier used shall be made by JPT unless Customer otherwise instructs JPT. Shipping and handling charges are at the sole expense of Customer. The risk of Products shall transfer to Customer immediately with JPT handing over such Products to a carrier for transportation to the agreed destination. Delivery timelines quoted on the written order confirmation refer to the dates of shipment of the Products. JPT is entitled to partial deliveries, each partial delivery to be invoiced and settled separately according to the above provisions.

Any delays in or failure of performance of any of JPT's contractual obligations shall not be considered a breach of such contractual obligation if and to the extent that such delay or failure is caused by occurrences beyond the reasonable control of JPT, including, but not limited to acts, regulations and laws of any government; strikes or other concerted acts of workers, fire, floods, explosions, riots, wars, rebellion, and sabotage, as well as any inability to procure materials required to perform the contractual obligations, and provided further that such delay or failure cannot be attributed to any faulty behaviour on part of JPT.

Inspections

Upon receipt of the Products Customer shall carry out a quality inspection of the Products to ensure conformity of quality and quantity of Products with the contractual agreement. In the event that upon such inspection Customer identifies a defect of Products, notification of such defect shall be made to JPT in writing immediately, but in any event no later than two (2) weeks after delivery of Products to Customer. If no such timely notification is made to JPT, Products shall be deemed to be accepted by Customer unless a defect cannot be discovered upon reasonable inspection by Customer ("Latent Defect"). If such Latent Defect is subsequently discovered by Customer, notification shall be made to JPT in writing within two (2) weeks after discovery of such Latent Defect. If no such timely notification is made to JPT, Products shall be deemed to be accepted by Customer. These provisions shall apply accordingly for any deviation in type and quantity of Products.

Warranty - Field of Use

JPT warrants that, at the time of delivery, the Products and Services will meet the specifications of the written order confirmation.

JPT's sole liability in the event of any defect or Latent Defect as well as any deviation in type and quantity is, at the sole discretion of JPT, limited to repair or replacement of Products. If JPT decides to repair Products, and such repair fails, Customer may opt for a reduction of the purchase price of Products or withdraw from the underlying agreement.

All Products are intended for *in vitro* laboratory research purposes only. JPT expressly warns Customer against using Products in vivo in humans or animals.

JPT shall not be liable for any damages that arise from any inappropriate use or distribution of Products. Customer carries out any research activities involving Products at his own risk. Customer hereby covenants and agrees to indemnify and hold JPT, its directors, officers and employees harmless from any claims, liabilities, damages (including consequential and indirect damages), costs and expenses (including reasonable legal fees) arising from the use of Products by Customer unless such damages are caused by any negligent behaviour of JPT.

All Products include technologies for which patents have been issued or are pending, or which are protected by any other form of intellectual property rights such as know-how, and for which components have been licensed to make them available, including without limitation JPT's proprietary and protected manufacturing process for Products ("Underlying Technologies"). Not all components may be available for commercial license. It is incumbent upon the interest party to contact the appropriate patent assignees for specific information regarding license issues. Purchase of Products does not grant Customer any rights in Underlying Technologies.

Customer is herewith expressly informed that JPT manufactures Products or performs Services according to the specifications as defined by Customer in the respective purchase order. JPT does not carry out any research on whether the Products or Services requested by Customer and subsequently produced or performed by JPT are free of any third party rights, in particular third party intellectual property rights. Therefore, third party rights, including third party intellectual property rights such as patents, may exist in Products purchased or Services ordered by Customer. Customer hereby covenants and agrees to indemnify and hold JPT, its directors, officers and employees harmless from any claims, liabilities, damages (including consequential and indirect damages), costs and expenses (including reasonable legal fees) incurred in connection with claims for any violation by JPT of any third party intellectual property rights, including without limitation patent rights, resulting from JPT carrying out the Services according to the request of Customer, and/or manufacturing Products according to the specification of Customer. Except as expressly provided in these Terms & Conditions, JPT makes no representations of any kind and hereby expressly disclaims all warranties relating to the Products or their use, including without limitation as to quality, condition, merchantability, fitness for a particular purpose, or non-infringement of third party intellectual property rights.

Liability

JPT shall be liable without limit in accordance with the statutory provisions for damages resulting from the gross negligent or wilful misconduct of its legal representatives or mana-

gerial employees, as well as for personal injury. In the event of intention or gross negligence of mere vicarious agents as well as in the event of minor negligence causing the violation of essential contractual duties which are indispensable for the achieving of the contractual purpose and on the strict compliance with which Customer must therefore be able to rely, JPT shall be liable in accordance with the statutory provisions, limited to such damages as were foreseeable for JPT at the time of entering this Agreement in terms of type and scope. In all other cases, claims of Customer for direct or indirect damages—irrespective of the legal ground including any damages claims under tort—are excluded. This limitation of liability shall apply accordingly to any potential liability of the legal representatives, managerial employees and other vicarious agents of JPT to purchaser.

Notification

Any notice to be made to JPT shall be directed to: JPT Peptide Technologies GmbH, Volmerstrasse 5, 12489 Berlin, Germany.

Miscellaneous

Place of fulfilment of JPT's obligations is Berlin, Germany. The legal relationship between JPT and Customer, including these Terms & Conditions, and any disputes arising herefrom, will be governed by and construed in accordance with the laws of the Federal Republic of Germany to the express exclusion of the UN-Convention on the international Sale of Goods. The competent courts of Berlin, Germany shall have exclusive jurisdiction for any disputes arising out of or in the context of the agreement between JPT and Customer.

In the event that any provision of these Terms & Conditions is or becomes invalid, the validity of the remaining provisions shall remain unaffected. The invalid provision shall be replaced by a valid provision which comes closest to the economic purpose of the invalid provision.

March 2013

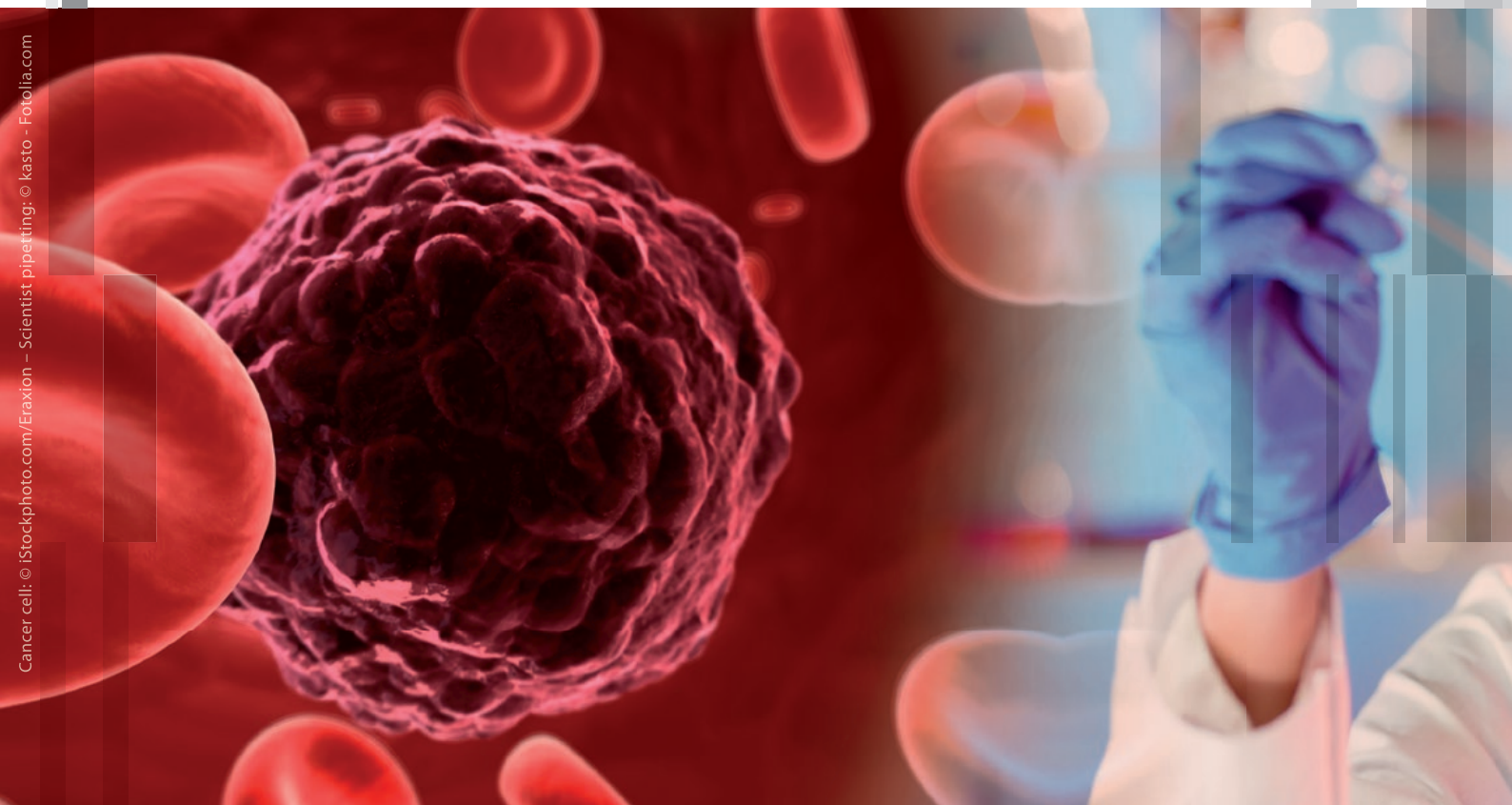
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Please visit our website www.jpt.com
We welcome your feedback and comments!

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