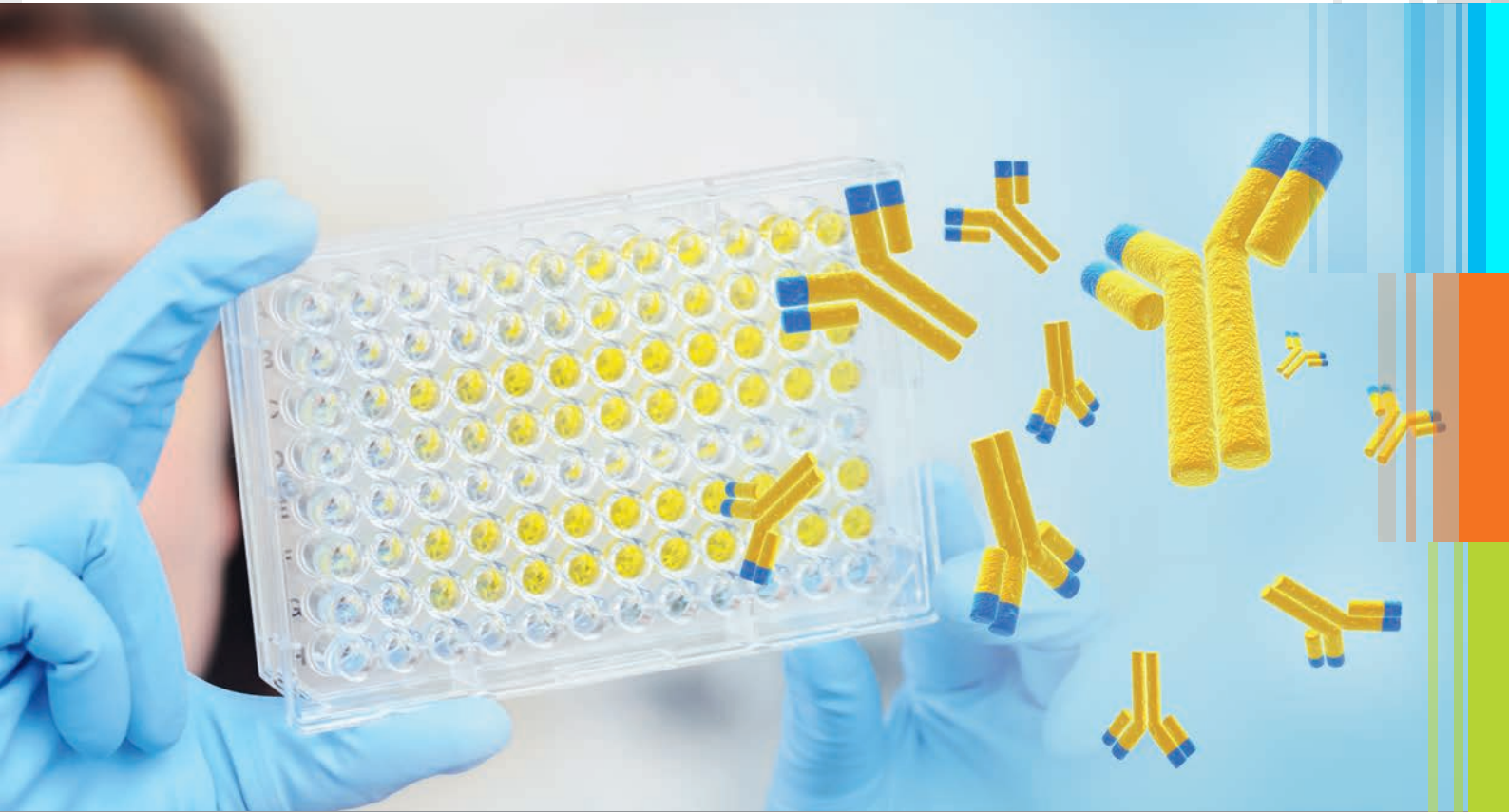


Innovative Peptide Solutions



Antibody Services

Peptide Tools for Antibody Generation

- ❖ Peptide immunogens
- ❖ Titer determination
- ❖ Hybridoma screening
- ❖ Epitope mapping
- ❖ Antibody characterization
- ❖ Blocking peptides

Contact us for further information: peptide@jpt.com

JPT Peptide Technologies
www.jpt.com
peptide@jpt.com

Contact
T +49-30-6392-7878
F +49-30-6392-7888

USA/Canada
T 1-888-578-2660
F 1-888-578-2666



Innovative Peptide Solutions

➤ Immunogen Design

- Design and production of immunogenic peptides (e.g. KLH, BSA, OVA conjugates or MAP – multiple antigenic peptides)
- Production of specialty peptides carrying modifications such as phosphorylation, citrullination, acetylation and more
- Design supported by data mining, modeling and bioinformatics

➤ Assay Development

- Screening tools such as pre-coated peptide ELISA plates for fast and easy titer determination without the need of carrier conjugation
- B-Cell ELISPOT (total IgG and peptide-specific)
- Identification of soluble biomarkers as target for antibody development

➤ Antibody Characterization

- Sophisticated peptide microarrays improve and accelerate your hybridoma screening
- Antibody epitope mapping by proprietary peptide array technologies (PepStar™)
- Specificity testing of antibodies (including PTMs)
- SAR for antibody/peptide interactions
- Design and production of mimotopes and biosimilars

➤ Process Optimization

- Peptides as assay control
- Affinity Purification

➤ Why Use Peptides as Antigens?

- Peptide epitopes represent antigen proteins
- Chemical synthesis yields defined epitopes
- Lower probability of cross-reactivity
- More flexibility in antigen selection
- Sequence diversity and PTMs can be addressed
- Easy to synthesize, cost-effective and stable

➤ Applications

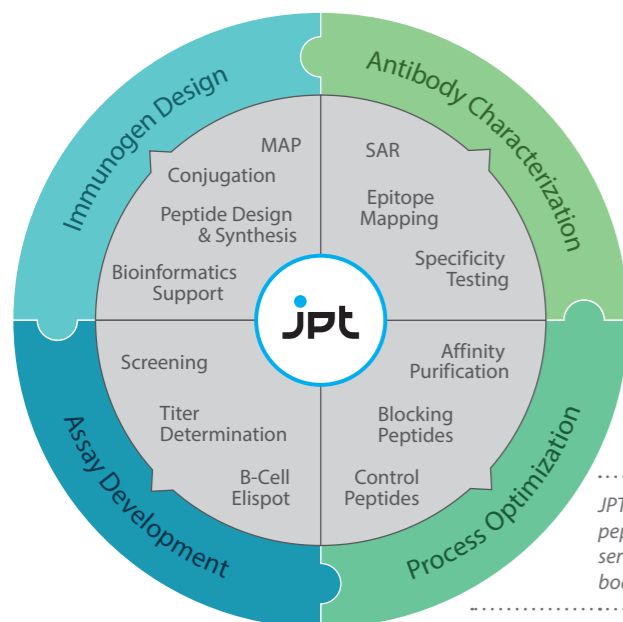
- Antibody production
- Epitope mapping
- Antibody characterization
- Modeling and data mining

➤ Why Work with JPT?

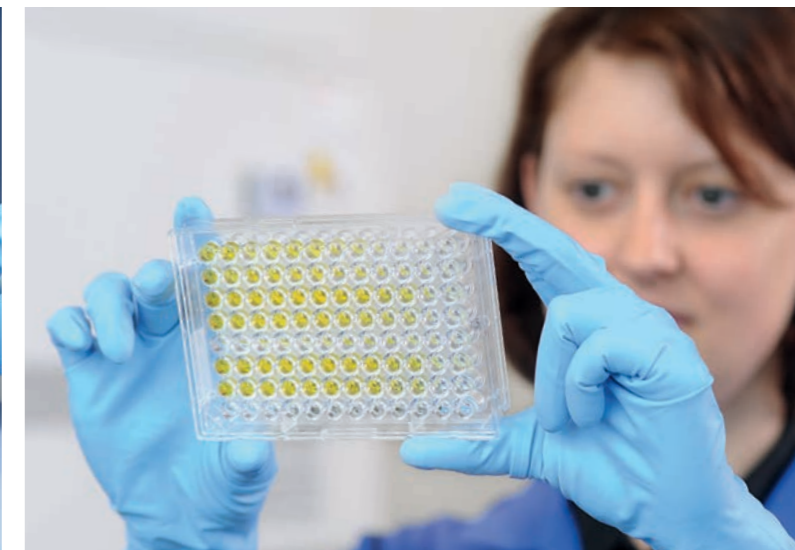
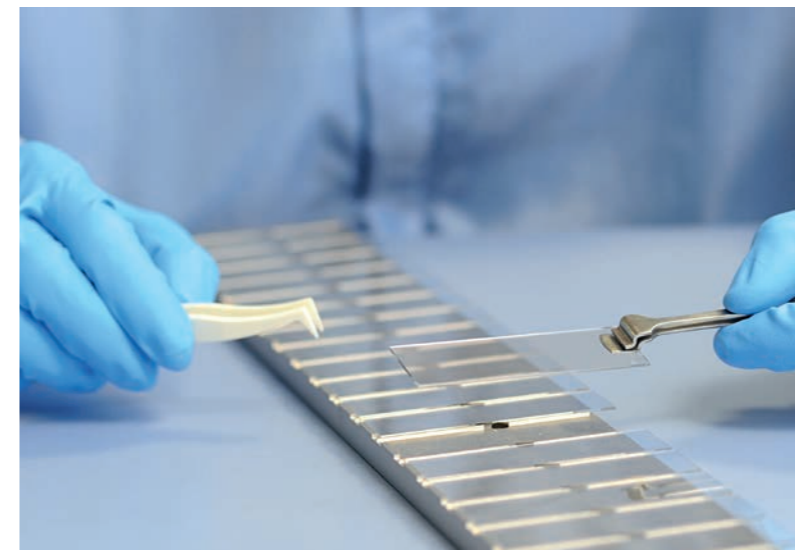
- We are your one-stop peptide source for antibody generation
- Our proprietary technologies facilitate projects world-wide
- Over 1000 peer-reviewed papers with our products
- Comprehensive know-how and dedicated staff make us the peptide experts
- More than 20 years' experience on peptides in immunology
- ISO 9001:2015 regulated quality management system
- We provide strong bioinformatics support
- Sound knowledge about storage and stability

Choose JPT for all your peptide needs!
 We are the peptide experts.
 We are the specialists for immunology.

Diagnostic Antibodies Mimotopes
 Biosimilars Immunogen Design Blocking Peptides
 Conjugates Epitopes
 Specificity Testing



JPT is the one-stop source of peptide-related products and services for all phases of antibody generation.



Antibody Services

Selected References

- *"Serological Profiling of the EBV Immune Response in Chronic Fatigue Syndrome Using a Peptide Microarray"*
Loebel et al., PLoS One (2017)
- *"Identification of Broadly Neutralizing Monoclonal Antibodies Against Crimean-Congo Hemorrhagic Fever Virus"*
Zivcec et al., Antiviral Res. (2017)
- *"Therapeutic Anti-IgE Monoclonal Antibody Single Chain Variable Fragment (scFv) Safety and Immunomodulatory Effects After One Time Injection in Four Dogs"*
Hammerberg et al.,
Veterinary Dermatology (2016)
- *"Peptidomimetic Therapeutics: Scientific Approaches and Opportunities"*
Qvit et al., Drug Discov Today (2016)
- *"Quantification of the Epitope Diversity of HIV-1-Specific Binding Antibodies by Peptide Microarrays for Global HIV-1 Vaccine Development"*
Stephenson et al., J Immunol Methods (2015)
- *"Human Adenosine A2A Receptor Binds Calmodulin with High Affinity in a Calcium-Dependent Manner Identification of Protective Linear B-cell Epitopes on the Subolesin/Akirin Orthologues of Ornithodoros spp. Soft Ticks"*
Manzano-Román et al., Vaccine (2015)

Application Notes

- *"Comprehensive Characterization of Antibodies Directed towards Epigenetic Histone-Modifications"*
Masch et al., Application Note (2015)
- *"Rapid Mimotope Optimization for Pharmacokinetic Analysis of the Novel Therapeutic Antibody IMAB362"*
Daneschdar et al., Application Note (2014)
- *"A Modular Approach for Epitope Discovery and High-Resolution Profiling of Humoral Immune Responses"*
Pawlowski et al., Application Note (2013)
- *"BioTides™ as High Throughput Screening Tool for the Identification of Antibody Binding Sites"*
Kühne et al., Application Note (2012)

“The RV 144 HIV trial is considered as one of first successful HIV vaccine trials. It has become clear that the V2 loop of gp120 is an important site for immunogenicity and protection from HIV infection. The use of JPT’s PepStar™ microarray technology has been very useful for the correlation of the clinical outcome with humoral immune responses. As have the cyclic peptides been from JPT to validate these findings!”

J. Currier, PhD (Walter Reed Army Institute, Rockville, Maryland, USA)

Issue Date: April 2018

JPT Peptide Technologies
www.jpt.com
peptide@jpt.com

Contact
T +49-30-6392-7878
F +49-30-6392-7888

USA/Canada
T 1-888-578-2660
F 1-888-578-2666



Innovative Peptide Solutions