

PEPperCHIP® Human Epitome Microarray

For the very first time, the new PEPperCHIP[®] Human Epitome Microarray covers all linear human B-cell epitopes of the Immune Epitope Database (www.iedb.org).

Features:

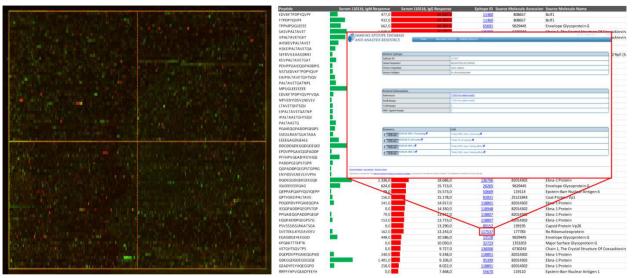
The 29,128 different peptides of the PEPperCHIP[®] Human Epitome Microarray are based on 23,163 database epitopes of 2,542 different proteins and 468 different organisms. Sorted by disease states, the PEPperCHIP[®] Human Epitome Microarray covers the following indications:

- 8,504 epitopes of infectious diseases
- 3,808 epitopes of autoimmune diseases including 301 citrullinated peptides
- 3,451 epitopes of allergens
- 199 epitopes of cancer
- 64 epitopes of transplant disease
- 995 epitopes of other diseases
- 4,661epitopes of the most common vaccines
- 1,481 epitopes of healthy controls

Applications:

The PEPperCHIP® Human Epitome Microarray enables the high throughput screening of serum and plasma antibody responses against all linear human B-cell epitopes of the Immune Epitope Database: This corresponds to 28,895 peptide ELISA in a single assay with less than 50 µl sample need.

- epitome-wide antibody screening and high throughput serum biomarker discovery
- differentiation between IgG and IgM or IgA response profiles
- · identification of prognostic epitopes
- cross-reactivity analysis of mono- and polyclonal antibodies
- patient stratification
- investigation of links between autoimmune and infectious diseases



Microarray scan of a PEPperCHIP[®] Human Epitome Microarray with IgG (red) and IgM (green) response profiles from patient serum (left); IgG and IgM hit lists are directly linked with Immune Epitope Database entries and literature as well as the corresponding antigen.



Analysis:

Due to the discovery microarray format and the resulting large data sets, PEPperCHIP[®] Human Epitome Microarrays are exclusively provided in line with PEPperMAP[®] Services.

Sample Need:

50 μl serum or 50 μg purified antibody

Timeline:

The PEPperCHIP® Human Epitome Microarray is usually available within 1-2 weeks. We ask to ship the sample(s) within this period. The assays will take 1-2 weeks followed by another week for data quantification, evaluation and reporting. A custom screening service based on a PEPperCHIP® Human Epitome Microarray, hence, requires 3-5 weeks from order confirmation to delivery of the scientific report.

Advantages:

- largest human epitope library available on peptide microarray
- equivalent to more than 28,000 peptide ELISAs at once
- most economical solution for high throughput peptide screening
- outstanding signal-to-noise ratios due to proprietary slide coatings
- comprehensive analysis by PEPperPRINT's peptide microarray experts
- data evaluation and reporting on a scientific level

Further Product Information:

visit our website http://www.pepperprint.com/products/human-epitome-microarray/

Related Products:

- PEPperCHIP[®] Infectious Disease Epitope Microarray
 → 3,760 linear B-cell epitopes epitopes associated with 196 different infectious diseases from the Immune
 Epitope Database
- PEPperCHIP[®] Autoimmune Epitope Microarray 3.0
 → 4,287 linear B-cell epitopes associated with different autoimmune diseases from the Immune Epitope Database
- PEPperCHIP[®] Allergen Epitope Microarray

 → 4,022 linear allergen epitopes based on 223 different allergens that correlate with different allergic disease from the Immune Epitope Database
- PEPperCHIP[®] Custom Peptide Micoarrays

 → from 16 x 120 to 1 x 35,500 custom peptides per chip including linear and cyclic sequences

For more information, please visit our website www.pepperprint.com or contact us by phone or email.