

PEPperCHIP® Autoimmune Epitope Microarray

Product: PEPperCHIP® Peptide Microarray

Organisms:

Homo sapiens	Human poliovirus 3
Burkholderia fungorum	Human rotavirus MP409
Caprine arthritis encephalitis virus	Human T-cell lymphotropic virus 1
Chlamydia pneumoniae	Influenza A virus (H3N2)
Chlamydia trachomatis	Klebsiella pneumonia
Coxsackievirus B4	Mus musculus
Escherichia coli	Mycobacterium avium
Haemophilus influenzae	Mycobacterium bovis
Helicobacter pylori	Mycobacterium gordonae
Hepatitis C virus	Mycobacterium leprae
Homo sapiens (Human)	Mycobacterium tuberculosis
Human adenovirus 12	Paenibacillus mucilaginosus
Human adenovirus 5	Phaseolus vulgaris
Human coxsackievirus A9	Porphyromonas gingivalis
Human coxsackievirus A20	Prochlorococcus marinus
Human coxsackievirus B4	Proteus mirabilis
Human Endogenous Retrovirus	Salmonella enterica
Human enterovirus A	Shigella flexneri
Human herpesvirus 1	Simian virus 40
Human herpesvirus 2	Staphylococcus aureus
Human herpesvirus 4	Streptococcus pyogenes
Human herpesvirus 5	Torque teno virus
Human herpesvirus 6	Trypanosoma cruzi
Human immunodeficiency virus 1	Yersinia enterocolitica

Epitope related diseases: Autoimmune diseases of the:

- urogenital tract
- blood (e.g. antiphospholipid syndrome)
- cardiovascular system
- central nervous system (e.g. multiple sclerosis)
- endocrine system (e.g. diabetes mellitus)
- exocrine system (e.g. Sjögren's syndrome)
- eyes, nose and throat
- gastrointestinal tract (e.g. Crohn's disease)
- musculoskeletal system (e.g. rheumatoid arthritis)
- peripheral nervous system
- skin and connective tissue (e.g. vitiligo)
- systemic autoimmune disease (e.g. systemic lupus erythematosus)

For more information please have a look at the Immune Epitope Database (<http://www.iedb.org/>).

Microarray Content: 4,287 B-cell epitopes associated with autoimmune diseases from the Immune Epitope Database (<http://www.iedb.org/>) including 286 citrullinated peptides as well as the corresponding arginine variants.

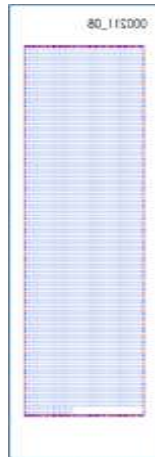
More information on the epitope content is available in the Excel file: "Peptide_Map_Autoimmune_Epitope_Microarray".

Epitope Lengths: 3 - 51 aa

Peptide Lengths: 3 to 17 aa depending on the epitope length; longer epitopes were translated into overlapping 17 aa peptides

Number of Peptides/Spots: 4,287 / 8,574 (peptides in duplicate)

Microarray Layout:



Each PEPperCHIP® Peptide Microarray is marked with microarray ID on the backside of the glass slide. The glass slide is accurately placed in an incubation tray with the microarray surface up if the microarray ID appears in the **top right corner** in a **mirror view** manner.

The PEPperCHIP® Autoimmune Epitope Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® Autoimmune Epitope Microarray further contains HA, Polio and c-Myc control peptides (40, 38 and 26 spots each control).

Microarray Layout Files: Excel: Peptide_Map_Autoimmune_Epitope_Microarray.xlsx

GenePix® Pro: Autoimmune_Epitope_Microarray.gal

PepSlide® Analyzer: Autoimmune_Epitope_Microarray.psf