

PEPperCHIP® SARS-CoV-2 Proteome Microarray

Profile specific antibody responses
and identify epitopes against SARS-CoV-2.

- Serologically screen antigens of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).
- Contains the whole proteome of SARS-CoV-2 (GenBank ID: MN908947.3) including 49 mutations of the B.1.1.7, 501.V2, B.1.1.28 and P.1 Manaus variants, and all spike protein mutations of the Alpha, Beta, Gamma, Delta, Delta Plus and Omicron variants of concern.
- Applications
 - High-resolution epitope mapping of anti-SARS-CoV-2 antibodies (IgG, IgA, and IgM).
 - Identification of SARS-CoV-2 epitope biomarkers for IVD development and vaccine research.

bit.ly/sarscov2array

PEPperCHIP® Pan-Corona Spike Protein Microarray

Seven human coronavirus spike proteins.
One single assay.

- Analyze antibody reactivity against all seven human coronavirus spike proteins.
- Library content: spike proteins of SARS-CoV-2, SARS-CoV, MERS-CoV, HCoV-HKU1, HCoV-OC43, HCoV-NL63, and HCoV-229E as well as all spike protein mutations of the SARS-CoV-2 Alpha, Beta, Gamma, Delta, Delta Plus and Omicron variants of concern.
- Applications
 - Cross-reactivity analysis of spike protein-specific antibodies on the epitope level. Assay purified antibodies or sera.

bit.ly/covspikearray

PEPperMAP® Epitope Mapping Services

Send us your samples and get a full scientific analysis report.

All we need to get started is your target antigen sequence and your sample antibody or sera. From epitope identification and antibody validation, to full-scale epitope biomarker discovery, we offer customized solutions for your research needs.

How can we support your research? Get in touch with one of our scientists to discuss your project:

info@pepperprint.com

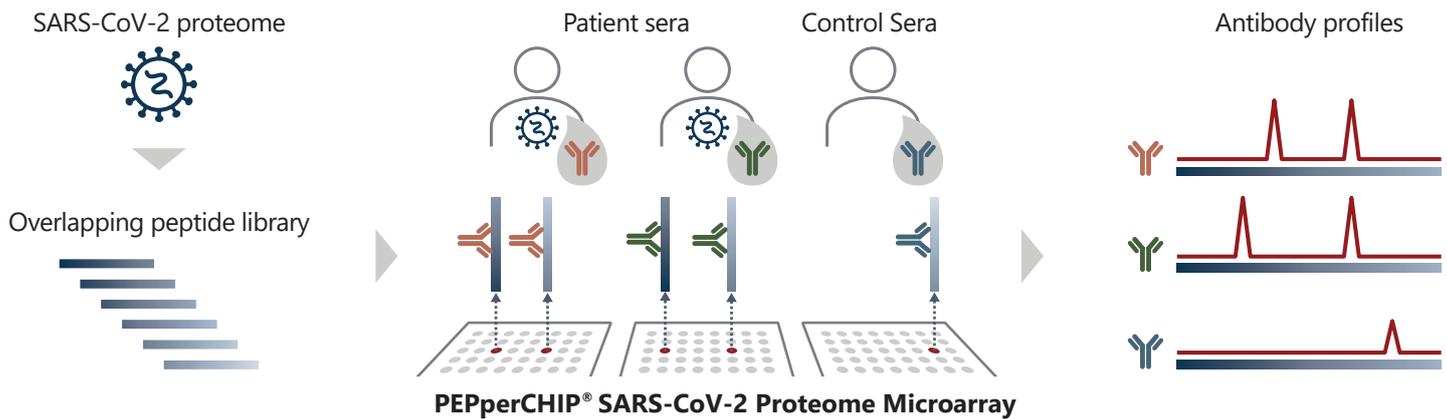


Fig. 1. Proposed antibody profiling workflow using the PEPperCHIP® SARS-CoV-2 Proteome Microarray. The entire SARS-CoV-2 viral proteome is translated into overlapping peptides and printed onto glass slides. Patient sera is incubated on the chip and antibodies present in the sample bind to epitopes recognized within individual peptides. The resulting response profile may be compared across different samples to monitor B-cell responses over time, or to determine immunodominant epitopes that may further be validated as potential disease-specific biomarkers for IVD development.

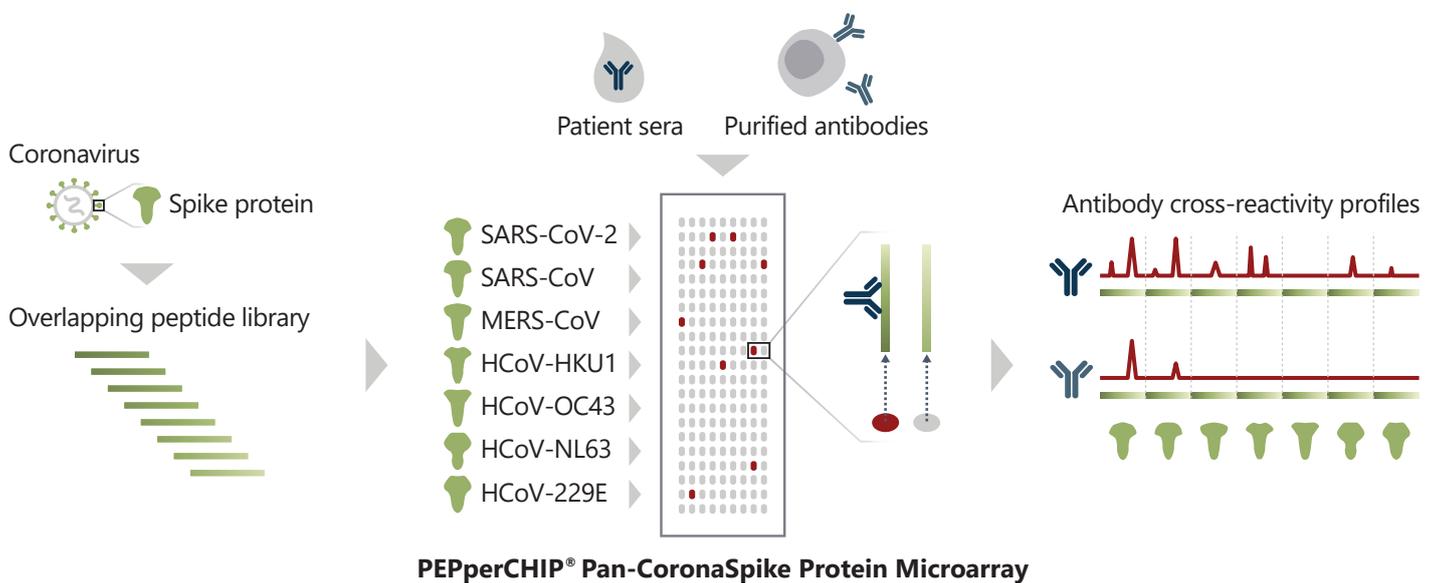


Fig.2. Antibody fingerprint or cross-reactivity analysis workflow using the PEPperCHIP® Pan-Corona Spike Protein Microarray. Spike protein sequences of 7 human coronaviruses are translated into overlapping peptides and printed onto glass slides. Antibody samples, patient or animal sera are incubated on the chip followed by antibody binding to the corresponding spike protein epitopes. The resulting epitope profiles can be compared across different samples to determine antibody specificity and sensitivity, or to identify coronavirus-specific target sequences for the development of diagnostic or therapeutic antibodies.

PEPperCHIP® Standard Peptide Microarrays for Infectious Disease Research

SARS-CoV-2 Proteome Microarray
Pan-Corona Spike Protein Microarray
Infectious Disease Epitope Microarray
BK Polyomavirus Antigen Microarray
Chikungunya Virus Microarray
MERS-CoV Proteome Microarray
Dengue Virus Type 1 Proteome Microarray
Dengue Virus Type 2 Proteome Microarray
Dengue Virus Type 3 Proteome Microarray
Dengue Virus Type 4 Proteome Microarray

Epstein-Barr Virus Peptide Microarray
Foot-and-mouth Disease Virus Proteome Microarray
HBV Proteome Microarray
HBV L-Protein Pre-S and S Antigen Microarray
HCMV Antigen Microarray
HCV Proteome Microarray
HIV-1 (Env) Antigen Microarray
Influenza Virus H1N1 Proteome Microarray
Influenza Virus H5N1 Proteome Microarray
Japanese Encephalitis Virus Proteome Microarray

Mycobacterium Tuberculosis Antigen Microarray
SARS-CoV Antigen Microarray
SARS Coronavirus Proteome Microarray
Tetanus Toxin Microarray
Tick-borne Encephalitis Virus Proteome Microarray
Trypanosoma Brucei Antigen Microarray
Vaccinia Virus Antigen Microarray
West Nile Virus Proteome Microarray
Yellow Fever Virus Proteome Microarray
Zika Virus Proteome Microarray

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