

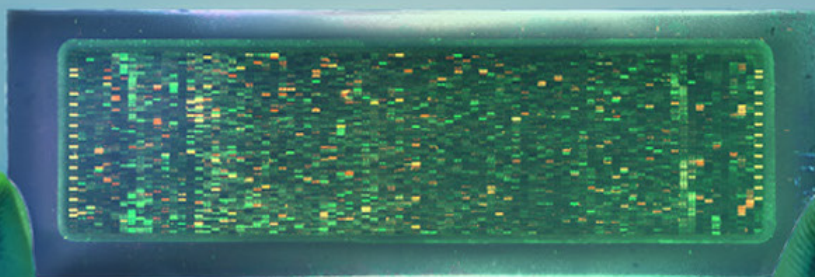
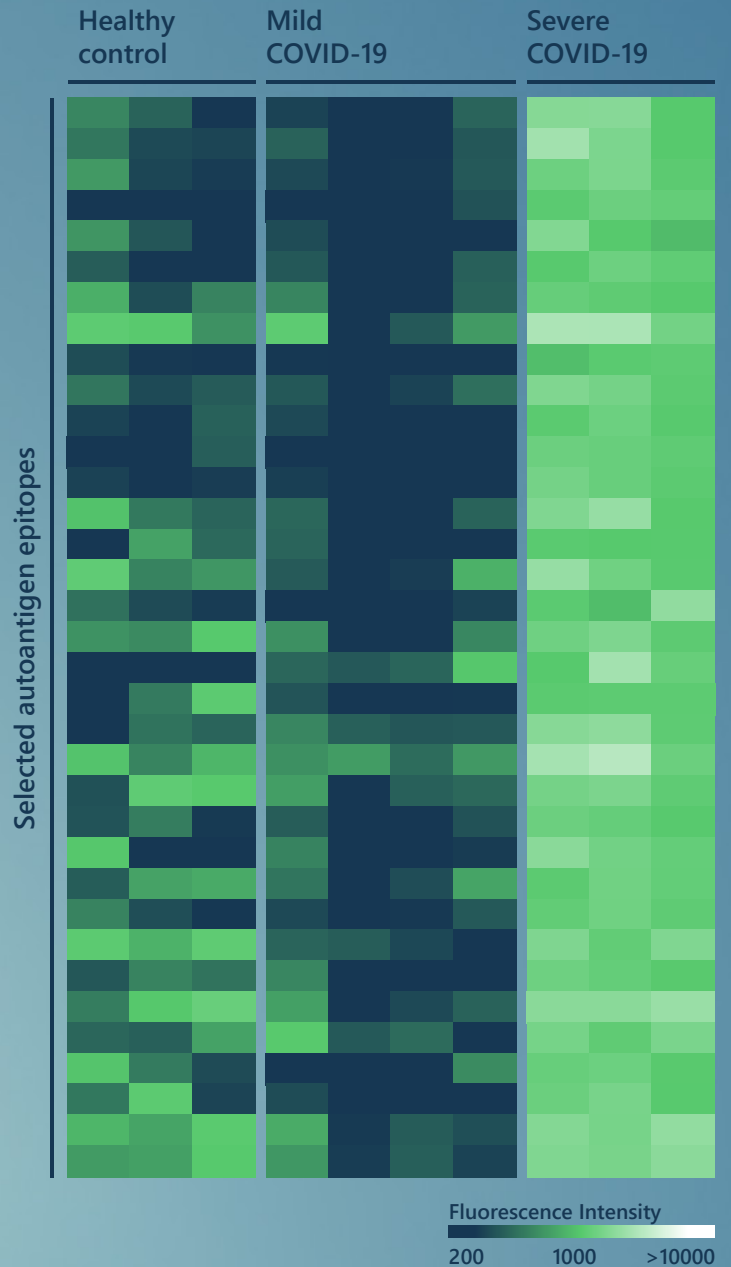
# Autoantibodies in SARS-CoV-2

*A look at IgA responses of COVID-19 patient sera to known human autoantigens.*

Identify and monitor autoantibodies in COVID-19 patient sera with the new PEPperCHIP® Autoimmune Human Epitope Microarray.

The chip contains 3,723 human B-cell autoimmune disease associated epitopes, including peptide variants with citrulline and acetyllysine.

Fig. 1. IgA fluorescence intensity heat maps showing IgA responses in healthy, mild, and severe COVID-19 patient sera against selected human autoantigen peptides in the PEPperCHIP® Autoimmune Human Epitope Microarray.

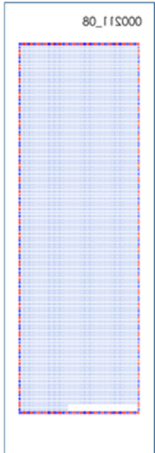


To learn more about the new PEPperCHIP® Autoimmune Human Epitope Microarray, email us at [info@pepperprint.com](mailto:info@pepperprint.com).



## PEPperCHIP® Autoimmune Human Epitope Microarray

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<b>Product:</b>	PEPperCHIP® Peptide Microarray
<b>Organism:</b>	Homo sapiens
<b>Epitope related diseases:</b>	<p>Autoimmune diseases of the:</p> <ul style="list-style-type: none"> <li>• urogenital tract</li> <li>• blood (e.g. antiphospholipid syndrome)</li> <li>• cardiovascular system</li> <li>• central nervous system (e.g. multiple sclerosis)</li> <li>• endocrine system (e.g. diabetes mellitus)</li> <li>• eyes, nose and throat</li> <li>• musculoskeletal system (e.g. rheumatoid arthritis)</li> <li>• peripheral nervous system</li> <li>• skin and connective tissue (e.g. vitiligo)</li> <li>• systemic autoimmune disease (e.g. systemic lupus erythematosus)</li> </ul> <p>For more information, please visit the Immune Epitope Database (<a href="http://www.iedb.org/">http://www.iedb.org/</a>).</p>
<b>Microarray Content:</b>	<p>3,723 human B-cell epitopes associated with autoimmune diseases from the Immune Epitope Database (<a href="http://www.iedb.org/">http://www.iedb.org/</a>) including 534 citrullinated peptide variants and 29 peptide variants with acetyllysine.</p> <p>More information on the epitope content is available in the Excel file: "Peptide Map Autoimmune Human Epitope Microarray.xlsx".</p>
<b>Epitope / Peptide Lengths:</b>	4 - 50 aa / 4 to 17 aa depending on the epitope length; longer epitopes were translated into overlapping 17 aa peptides
<b>Number of Peptides/Spots:</b>	5,315 / 10,630 (peptides in duplicate)
<b>Microarray Layout:</b>	<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">  </div> <div style="flex: 2; padding-left: 10px;"> <p><b>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 <b>top right corner</b> in a <b>mirror view</b> manner.</b></p> <p>The PEPperCHIP® Autoimmune Human Epitope Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.</p> <p>Each PEPperCHIP® Autoimmune Human Epitope Microarray further contains additional HA, polio and c-Myc control peptides (78, 76 and 76 spots each control).</p> </div> </div>
<b>Microarray Layout Files:</b>	<p>Excel: Peptide Map Autoimmune Human Epitope Microarray.xlsx</p> <p>Mapix: Autoimmune Human Epitope Microarray.gal</p>