

PEPperCHIP® Human Cytokine Microarray

Product: PEPperCHIP® Peptide Microarray

Organism: Human

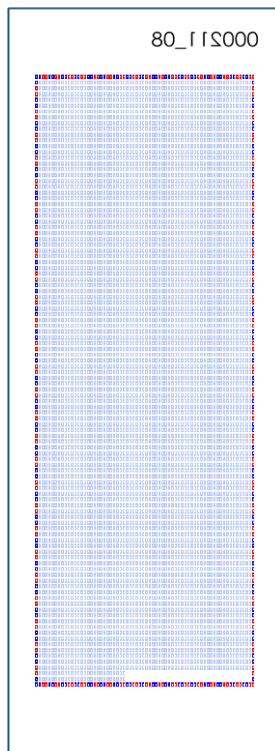
Microarray Content: 27 human cytokines converted into overlapping peptides

Protein	UniProt ID	Protein Length (aa)
IL-1 alpha	P01583	271
IL-1 beta	P01584	269
IL-2	P60568	153
IL-4	P05112	153
IL-5	P05113	134
IL-6	P05231	212
IL-8 (CXCL8)	P10145	99
IL-10	P22301	178
IL-12 subunit alpha (p35)	P29459	219
IL-12 subunit beta (p40)	P29460	328
IL-13	P35225	146
IL-15	P40933	162
IL-17A	Q16552	155
IL-18	Q14116	193
IL-23A	Q9NPF7	189
IL-27 subunit alpha	Q8NEV9	243
IL-27 subunit beta	Q14213	229
IL-29 (IFN-lambda-1)	Q8IU54	200
IL-33	O95760	270
TNF-alpha	P01375	233
TNF-beta	P01374	205
IFN-alpha-2	P01563	188
IFN-beta	P01574	187
IFN-gamma	P01579	166
TGF-beta-1	P01137	390
GM-CSF	P04141	144
IP-10 (CXCL10)	P02778	98

Sequence Compilation: The sequences of the human cytokines were elongated with neutral GSGSGSG linkers at the N- and C-terminus to avoid truncated peptides. The elongated protein sequences were converted into 5,414 different 15 amino acid peptides with a peptide-peptide overlap of 14 amino acids for high resolution epitope data printed in duplicate (10,828 peptide spots).

Microarray Layout Files: Excel: Peptide Map Human Cytokine Microarray.xlsx
Mapix: Human Cytokine Microarray.gal

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

Each PEPperCHIP® Human Cytokine Microarray further contains additional HA (YPYDVPDYAG, 50 spots) and polio (KEVPALTAVETGAT, 44 spots) control peptides.