

# PepPool: SARS-CoV-2 (S), human

- Product code:** 3630-1
- Contents:** The SARS-CoV-2 S defined peptide pool contains 100 peptides from the human SARS-CoV-2 virus. The peptides are derived from the spike (S) protein. The mean purity of the synthetic peptides is 90%.
- Applications:** The peptide pool is recommended for enumeration of cytokine secreting T cells specific for SARS-CoV-2 spike protein with ELISpot/FluoroSpot. The peptide pool has been validated using human PBMC from COVID-19 convalescent individuals and COVID-19 vaccinated individuals.
- Instructions:** Sterile handling is recommended. Dissolve the lyophilized peptide pool by addition of 40 µl DMSO to the vial. Then add 85 µl PBS, mix and aliquote and store at -20°C or below. This stock solution will have a concentration of 200 µg/ml of each peptide.
- Dilute the stock solution 1:100 in cell culture medium to obtain 2 µg/ml of each peptide in the cell culture. Use the peptide pool in ELISpot and FluoroSpot assay for stimulation of 250,000-500,000 cells per well. Use the diluted peptide solution fresh.
- Storage:** Shipped at ambient temperature. Store frozen at -20°C or below upon receipt. After reconstitution, store aliquotes at -20°C or below. We recommend the aliquots not be refrozen after initial use.
- Quantity:** One vial with 25 ug of each peptide.
- References: Peng Y, *et al.* Broad and strong memory CD4+ and CD8+ T cells induced by SARS-CoV-2 in UK convalescent COVID-19 patients. *Nature Immunology*, vol 21, Nov 2020.
- Tarke *et al.* Comprehensive analysis of T cell immunodominance and immunoprevalence of SARS-CoV-2 epitopes in COVID-19 cases. *2021, Cell Reports Medicine* 2, Feb 16.

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**Mabtech AB (Head Office)**  
Sweden  
Tel: +46 8 716 27 00  
mabtech@mabtech.com  
Updated on 2022-11-22

**Mabtech, Inc.**  
USA  
Tel: +1 513 871-4500  
mabtech.usa@mabtech.com



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## Published HLA types covered PepPool: SARS-CoV-2 (S), human

A*01:01
A*02:01
A*03:01
A*11:01
A*24:02
A*26:01
A*29:02
A*30:02
A*31:01
A*68:01
B*07:02
B*08:01
B*15:01
B*35:01
B*40:01
B*44:02
B*44:03
C*07:01
DRB1*01:01
DRB1*03:01
DRB1*04:01
DRB1*04:04
DRB1*04:05
DRB1*07:01
DRB1*08:02
DRB1*09:01
DRB1*12:01
DRB1*13:01
DRB1*14:01
DRB1*15:01
DRB1*16:01
DRB3*01:01
DRB4*01:01
DQB1*02:01
DQB1*02:02
DQB1*03:01
DQB1*03:03
DQB1*04:02
DQB1*05:02
DQB1*05:03
DQB1*06:02
DQB1*06:03