

# PepPool: BKV (CD4 and CD8), human

**Product code:** 3675-1

**Contents:** PepPool: BKV (CD4 and CD8), human contains 65 synthetic peptides derived from the BK polyomavirus (BKV) large T protein, small T protein, and VP1 protein. 50 of the peptides are MHC class I restricted and 15 are MHC class II restricted. The peptide pool is designed to stimulate T cells with a broad array of HLA class I supertypes. Sequence similarity to JC virus (JCV) ranges from 60% to 100%, with a median sequence similarity of 80%. Number of peptides represented from the different BKV proteins, HLA supertype coverage, and sequence similarity to JCV are shown on the other side of this page.

**Applications:** The peptide pool is recommended for enumeration of cytokine secreting T cells with ELISpot/FluoroSpot.

**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 in cell culture medium to obtain a final assay dilution of 1:100, i.e. 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/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.

# MABTECH

Note; for research use only.  
Mabtech shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damages therefrom.

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Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the standards ISO 9001:2015 & ISO 13485:2016.

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HLA class I supertype coverage

HLA class I supertype	No. of peptides
A1	5
A2	12
A3	11
A24	4
B7	5
B44	4
B8	2
B27	2
B58	2

BKV proteins and number of peptides included in the peptide pool

Protein	No. of peptides (CD8)	No. of peptides (CD4)
Large T	35	10
Small T	6	2
VP1	9	3

BKV peptide pool similarity to corresponding JCV peptides

