

PE-Labeled Human HLA-A*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer Protein



Cat. No. MHC-HE005TP

Description

Source	Recombinant PE-Labeled Human HLA-A*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. PE-Labeled Human HLA-A*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer is assembled by biotinylated monomer and PE-labeled streptavidin. It contains Gly25-Thr305 (HLA-A*11:01), Ile21-Met119 (B2M) and VVVGAVGVGK peptide.
Accession	AAV53343.1(HLA-A*11:01)&P61769(B2M)&VVVGAVGVGK
Wavelength	Excitation Wavelength: 488 nm / 561 nm Emission Wavelength: 575 nm
Endotoxin	Less than 1 EU per µg by the LAL method.

Formulation and Storage

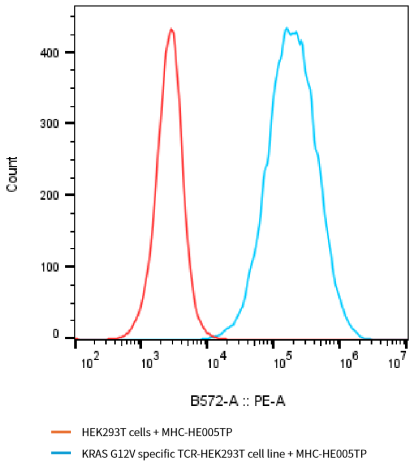
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 200mM NaCl, 0.2% BSA (pH 8.0).
Storage	Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Kirsten rat sarcoma 2 viral oncogene homolog (KRAS) is the most commonly mutated oncogene in human cancer. The developments of many cancers depend on sustained expression and signaling of KRAS, which makes KRAS a high-priority therapeutic target. The virtual screening approach to discover novel KRAS inhibitors and synthetic lethality interactors of KRAS are discussed in detail.

Assay Data

FACS Data



1E6 of KRAS G12V specific TCR-HEK293T cell line were stained with 100ul of 10ug/ml PE-Labeled Human HLA-A*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer Protein (Cat. No. MHC-HE005TP) and non-transfected HEK293T cells and PE-Labeled protein were used as negative control. PE signal was used to evaluate the binding activity.