

APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein

Catalog # HLV-HA2E3



BIOSYSTEMS
Acro

Synonyms

HLA-A*1101 & B2M & KRASG12V (VVVGAVGVGK)

Source

APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein (HLV-HA2E3) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A*11:01) & Ile 21 - Met 119 (B2M) & VVVGAVGVGK peptide (Accession # [Q5S3G3-1](#) (HLA-A*11:01) & [P61769](#) (B2M) & VVVGAVGVGK).

Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein is assembled by biotinylated monomer and APC-labeled streptavidin.

Biotinylated Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Complex Protein is produced by co-expression of HLA and B2M loaded with KRASG12V peptide. Biotinylated Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 36.0 kDa and 11.7 kDa.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, 50-150 mM NaCl with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

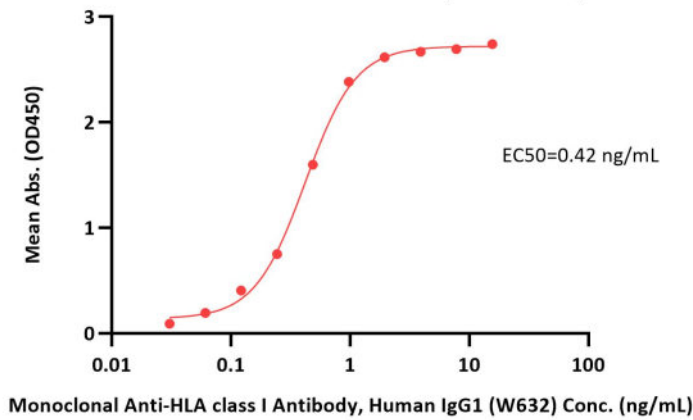
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

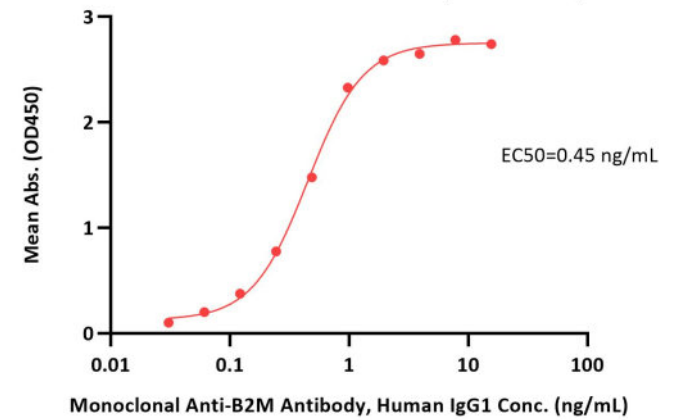
Bioactivity-ELISA

APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein ELISA
0.1 µg of APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein per well



Immobilized APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein (Cat. No. HLV-HA2E3) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-HLA class I Antibody, Human IgG1 (W632) with a linear range of 0.03-1 ng/mL (QC tested).

APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein ELISA
0.1 µg of APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein per well



Immobilized APC-Labeled Human HLA-A*11:01&B2M&KRASG12V (VVVGAVGVGK) Tetramer Protein (Cat. No. HLV-HA2E3) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-B2M Antibody, Human IgG1 with a linear range of 0.03-1 ng/mL (Routinely tested).

Background

The Kirsten rat sarcoma 2 viral oncogene homolog (KRAS) oncogene plays a critical role in the initiation and maintenance of pancreatic tumors and its signaling network represents a major target for therapeutic intervention. The Human HLA-A*1101 KRASG12V (VVVGAVGVGK) complex protein is a complex of HLA-A*1101 of the MHC Class I, B2M, and VVVGAVGVGK peptide of the KRASG12V.



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