#### Catalog # HLD-H52H7

# ACCO

#### Synonym

HLA-A\*1101 & B2M & KRASG12D (VVVGADGVGK)

### Source

Human HLA-A\*11:01&B2M&KRASG12D (VVVGADGVGK) Tetramer Protein(HLD-H52H7) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A\*11:01) & Ile 21 - Met 119 (B2M) & VVVGADGVGK peptide (Accession # <u>Q5S3G3-1</u> (HLA-A\*11:01) & <u>P61769</u> (B2M) & VVVGADGVGK). Predicted N-terminus: Gly 25 & Ile 21

# **Molecular Characterization**

Human HLA-A\*11:01&B2M&KRASG12D (VVVGADGVGK) Tetramer Protein is assembled by biotinylated monomer (HLD-H82E9) and streptavidin.

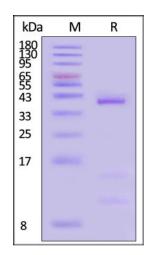
Biotinylated Human HLA-A\*11:01&B2M&KRASG12D (VVVGADGVGK) Complex Protein is produced by co-expression of HLA and B2M loaded with KRASG12D peptide. Biotinylated Human HLA-A\*11:01&B2M&KRASG12D (VVVGADGVGK) Complex Protein carries a polyhistidine tag at the Cterminus, followed by an Avi tag (Avitag<sup>™</sup>).

The protein has a calculated MW of 36.0 kDa and 11.7 kDa. The protein migrates as 38-41 kDa, 15 kDa and 11 kDa when calibrated against <u>Star Ribbon</u> <u>Pre-stained Protein Marker</u> under reducing (R) condition (SDS-PAGE) due to glycosylation.

# Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method.

# SDS-PAGE



# Human HLA-A\*11:01&B2M&KRASG12D (VVVGADGVGK) Tetramer

# Purity

>90% as determined by SDS-PAGE.

# Formulation

Lyophilized from 0.22  $\mu m$  filtered solution in PBS, pH7.4 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.

#### Storage

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.

Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With <u>Star</u> <u>Ribbon Pre-stained Protein Marker</u>).

**Bioactivity-ELISA** 

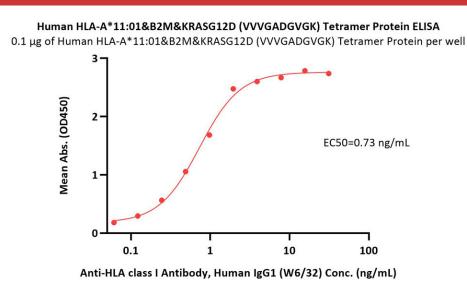


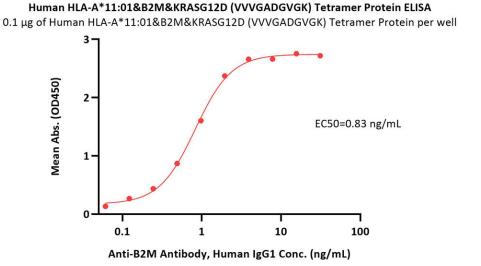


# Human HLA-A\*11:01&B2M&KRASG12D (VVVGADGVGK) Tetramer Protein



# Catalog # HLD-H52H7





Immobilized Human HLA-A\*11:01&B2M&KRASG12D (VVVGADGVGK) Tetramer Protein (Cat. No. HLD-H52H7) at 1  $\mu$ g/mL (100  $\mu$ L/well) can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.1-2 ng/mL (QC tested). Immobilized Human HLA-A\*11:01&B2M&KRASG12D (VVVGADGVGK) Tetramer Protein (Cat. No. HLD-H52H7) at 1 µg/mL (100 µL/well) can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.1-2 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 Alex Fluor labeled Human HLA-A\*1101 KRASG12D (VVVGADGVGK) complex protein is a complex of HLA-A\*1101 of the MHC Class I, B2M, and VVVGADGVGK peptide of the KRASG12D.

#### **Clinical and Translational Updates**

Please contact us via <u>TechSupport@acrobiosystems.com</u> if you have any question on this product.



