

Alexa Fluor™ 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein

Catalog # HLW-HA2H4



Synonyms

HLA-A*1101 & B2M & WT1 (FSCRWPSCQK)

Source

Alexa Fluor 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein (HLW-HA2H4) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A*11:01) & Ile 21 - Met 119 (B2M) & FSCRWPSCQK peptide (Accession # [Q5S3G3-1](#) (HLA-A*11:01) & [P61769](#) (B2M) & FSCRWPSCQK).

Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

Alexa Fluor 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein is assembled by biotinylated monomer and AF647-labeled streptavidin.

Biotinylated Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Complex Protein is produced by co-expression of HLA and B2M loaded with WT-1 peptide. Biotinylated Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

Conjugate

AF647

Excitation Wavelength: 640 nm

Emission Wavelength: 672 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with AF647 using standard chemical labeling method. The residual AF647 is removed by molecular sieve treatment during purification process.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm 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.

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 protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

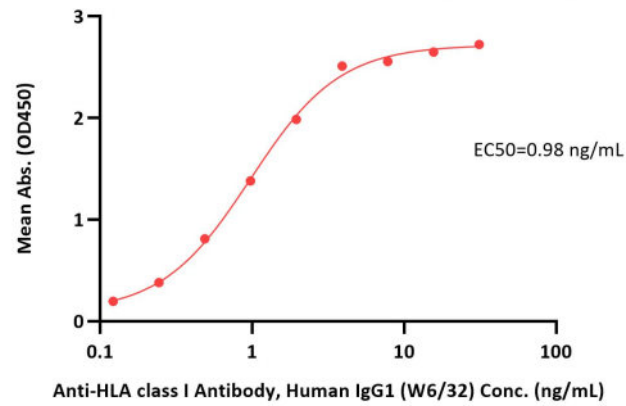
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

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

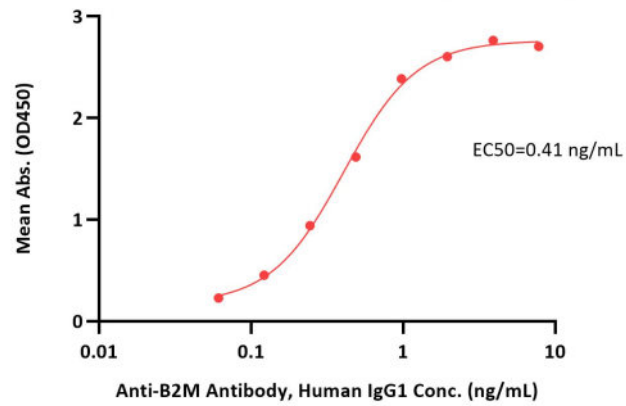
Bioactivity-ELISA

Alexa Fluor 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein ELISA
0.1 µg of Alexa Fluor 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein per well



Immobilized Alexa Fluor 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein (Cat. No. HLW-HA2H4) at 1 µg/mL (100 µL/well) can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.12-2 ng/mL (QC tested).

Alexa Fluor 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein ELISA
0.1 µg of Alexa Fluor 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein per well



Immobilized Alexa Fluor 647-Labeled Human HLA-A*11:01&B2M&WT-1 (FSCRWPSCQK) Tetramer Protein (Cat. No. HLW-HA2H4) at 1 µg/mL (100 µL/well) can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.06-1 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 Biotinylated Human HLA-A*1101 WT1 (FSCRWPSCQK) complex protein is a complex of HLA-A*1101 of the MHC Class I, B2M, and FSCRWPSCQK peptide of the KRAS.



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