

**Synonym**

HLA-A\*1101 &amp; B2M &amp; HPV16-E6 (TTLEQQYNK)

**Source**

PE-Labeled Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Tetramer Protein(HLH-HP2H4) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A\*11:01) & Ile 21 - Met 119 (B2M) & TTLEQQYNK peptide (Accession # [Q5S3G3-1](#) (HLA-A\*11:01) & [P61769](#) (B2M) & TTLEQQYNK).

Predicted N-terminus: Gly 25 &amp; Ile 21

**Molecular Characterization**

PE-Labeled Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Tetramer Protein is assembled by biotinylated monomer and PE-labeled streptavidin.

Biotinylated Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Complex Protein is produced by co-expression of HLA and B2M loaded with HPV16-E6 peptide. Biotinylated Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

**Conjugate**

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

&gt;90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, 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.

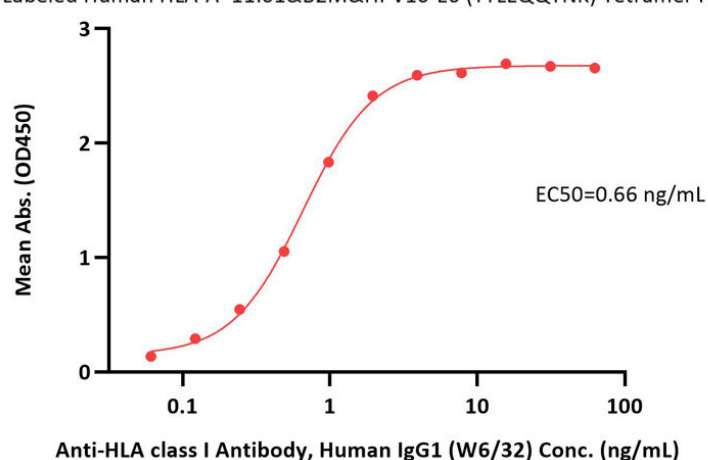
*Please protect from light and avoid repeated freeze-thaw cycles.*

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.

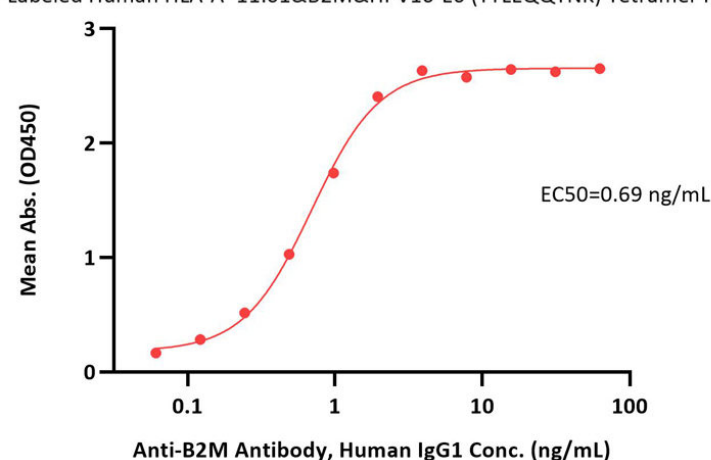
**Bioactivity-ELISA**

PE-Labeled Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Tetramer Protein ELISA  
0.1 µg of PE-Labeled Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Tetramer Protein per well



Immobilized PE-Labeled Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Tetramer Protein (Cat. No. HLH-HP2H4) at 1 µg/mL (100

PE-Labeled Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Tetramer Protein ELISA  
0.1 µg of PE-Labeled Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Tetramer Protein per well



Immobilized PE-Labeled Human HLA-A\*11:01&B2M&HPV16-E6 (TTLEQQYNK) Tetramer Protein (Cat. No. HLH-HP2H4) at 1 µg/mL (100

μL/well) can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.1-2 ng/mL (QC tested).

μL/well) can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL (Routinely tested).

### **Background**

Human papillomavirus (HPV) is A kind of papillomavirus belonging to the milk polypoid virus family. It is a spherical D virus, which can cause the proliferation of squamous epithelium of human skin mucosa. HPV(human papillomavirus) for common warts, genital warts (condyloma acuminatum), and other symptoms. There are many types of human papillomavirus (HPV), with HPV 16 and 18 being high-risk types known to significantly increase the risk of cervical, vaginal and vulvar cancers in women and men. The PE-labeled human HLA-A\*1101 HPV (TTLEQQYNK) tetramer protein is a complex of HLA-A\*1101 of the MHC Class I, B2M, and TTLEQQYNK peptide of the HPV.

### **Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.