



Synonym

HLA-A\*3001 & B2M & KRASG12V (VVGAVGVGK)

Source

APC-Labeled Human HLA-A\*30:01&B2M&KRASG12V (VVGAVGVGK) Tetramer Protein(HLV-HA2H7) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A\*30:01) & Ile 21 - Met 119 (B2M) & VVGAVGVGK peptide (Accession # [AAA70162.1](#) (HLA-A\*30:01) & [P61769](#) (B2M) & VVGAVGVGK).  
Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

APC-Labeled Human HLA-A\*30:01&B2M&KRASG12V (VVGAVGVGK) Tetramer Protein is assembled by biotinylated monomer and APC-labeled streptavidin.  
  
Biotinylated Human HLA-A\*30:01&B2M&KRASG12V (VVGAVGVGK) Complex Protein is produced by co-expression of HLA and B2M loaded with KRASG12V peptide. Biotinylated Human HLA-A\*30:01&B2M&KRASG12V (VVGAVGVGK) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

Conjugate

APC  
Excitation Wavelength: 640 nm  
Emission Wavelength: 661 nm

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.

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\*3001 KRASG12V (VVGAVGVGK) complex protein is a complex of HLA-A\*3001 of the MHC Class I, B2M, and VVGAVGVGK peptide of the KRASG12V.

