

Catalog # HLS-HA2H9

### Synonym

HLA-A\*1101 | B2M | KRAS (VVGAGGVGK)

### Source

Alexa Fluor 647-Labeled Human HLA-A\*11:01&B2M&KRAS (VVGAGGVGK) Complex Protein (HLS-HA2H9) is produced via conjugation of AF647 to Human HLA-A\*11:01&B2M&KRAS (VVGAGGVGK) Complex Protein with a new generation site-specific technology under Star Staining labeling platform. Human HLA-A\*11:01&B2M&KRAS (VVGAGGVGK) Complex Protein is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A\*11:01) & Ile 21 - Met 119 (B2M) & VVGAGGVGK peptide (Accession # [Q5S3G3-1](#) (HLA-A\*11:01) & [P61769](#) (B2M) & VVGAGGVGK).

Predicted N-terminus: Gly 25 & Ile 21

### Molecular Characterization

Alexa Fluor 647-Labeled Human HLA-A\*11:01&B2M&KRAS (VVGAGGVGK) Complex Protein is produced by co-expression of HLA and B2M loaded with KRAS peptide.

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

The protein has a calculated MW of 36.4 kDa and 14.0 kDa. The protein migrates as 55-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Conjugate

AF647

Excitation Wavelength: 640 nm

Emission Wavelength: 672 nm

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>90% 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.*

### Storage

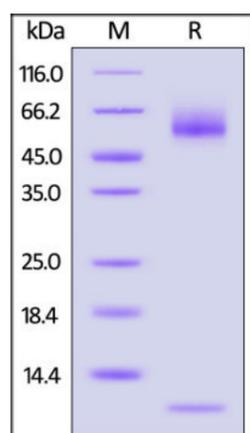
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

### SDS-PAGE



Alexa Fluor 647-Labeled Human HLA-A\*11:01&B2M&KRAS (VVGAGGVGK) Complex Protein on SDS-PAGE under reducing (R)

## Alexa Fluor™ 647-Labeled Human HLA-A\*11:01&B2M&KRAS (VVGAGGVGK) Complex Protein Star Staining (Monomer)



Catalog # HLA-A\*11:01&B2M&KRAS (VVGAGGVGK) complex protein  
condition. The gel was stained with Coomassie Blue. The purity of the protein  
is greater than 90%.

### 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 KRAS (VVGAGGVGK) complex protein is a complex of HLA-A\*1101 of the MHC Class I, B2M, and VVGAGGVGK peptide of the KRAS.

### Clinical and Translational Updates

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