

# Biotinylated Human HLA-A\*02:01&B2M&RAB7B (KLIIVGAIGV) Monomer Protein



Cat. No. MHC-HE009B

## Description

<b>Source</b>	Recombinant Biotinylated Human HLA-A*02:01&B2M&RAB7B (KLIIVGAIGV) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and KLIIVGAIGV peptide.
<b>Accession</b>	A0A140T913(HLA-A*02:01)&P61769(B2M)&KLIIVGAIGV
<b>Molecular Weight</b>	The protein has a predicted MW of 35.6 kDa (HLA-A*02:01) and 11.9 kDa (B2M) same as Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

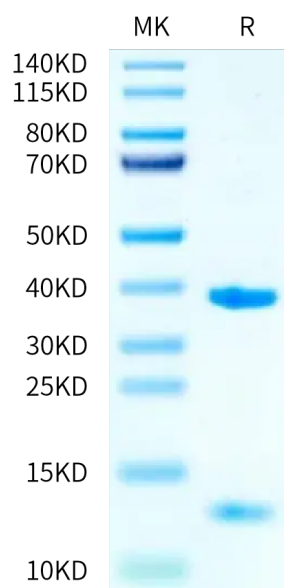
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Rab proteins are key-regulators of intracellular membrane trafficking. Rab7b is a recently identified Rab protein that may downregulate TLR4 and TLR9-mediated inflammatory responses. Rab7b, believed to have similar function as Rab7, controls however vesicular trafficking from endosomes to the TGN. It is localized to late endosomes/lysosomes as well as the TGN. Rab7b interferes with enzymes delivery to lysosomes and with the retrograde Shiga toxin transport to the Golgi.

## Assay Data

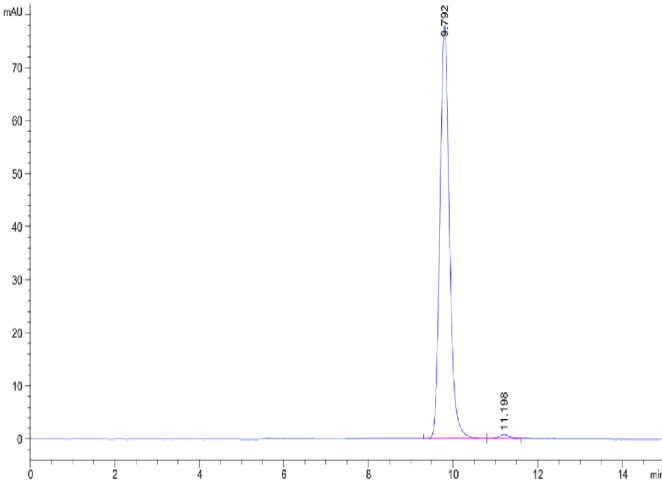
### Bis-Tris PAGE



Biotinylated Human HLA-A\*02:01&B2M&RAB7B (KLIIVGAIGV) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Biotinylated Human HLA-A\*02:01&B2M&RAB7B (KLIIVGAIGV) Monomer is greater than 95% as determined by SEC-HPLC.