

Datasheet for ABIN7274817
HLAG Protein (Tetramer) (HLA-G)

5 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	HLAG
Protein Characteristics:	Tetramer
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HLAG protein is labelled with HLA-G.

Product Details

Purpose:	Human HLA-G & B2M & Peptide (RIIPRHLQL) Tetramer Protein
Sequence:	Gly25-Thr305 (HLA-G), Ile21-Met119 (B2M) and RIIPRHLQL peptide
Specificity:	Uni-Prot: P17693-1 (HLA-G), P61769 (B2M), RIIPRHLQL
Characteristics:	Recombinant Human HLA-G & B2M & Peptide (RIIPRHLQL) Tetramer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Thr305(HLA-G), Ile21-Met119(B2M) and RIIPRHLQL peptide.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 4.62 nM as determined in SPR assay (Biacore T200). See testing image

Product Details

for detail.

Target Details

Target:	HLAG
Alternative Name:	HLA-G (HLAG Products)
Background:	HLA-G is a molecule that was first known to confer protection to the fetus from destruction by the immune system of its mother, thus critically contributing to fetal-maternal tolerance. The first functional finding constituted the basis for HLA-G research and can be summarized as such: HLA-G, membrane-bound or soluble, strongly binds its inhibitory receptors on immune cells (NK, T, B, monocytes/dendritic cells), inhibits the functions of these effectors, and so induces immune inhibition.
Molecular Weight:	258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition based on Tris-Bis PAGE result.
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Cancer Immune Checkpoints

Application Details

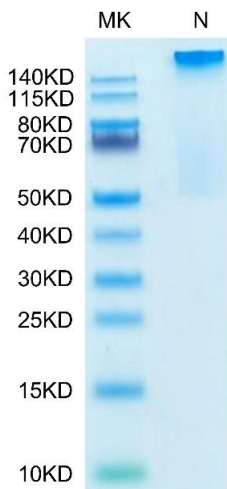
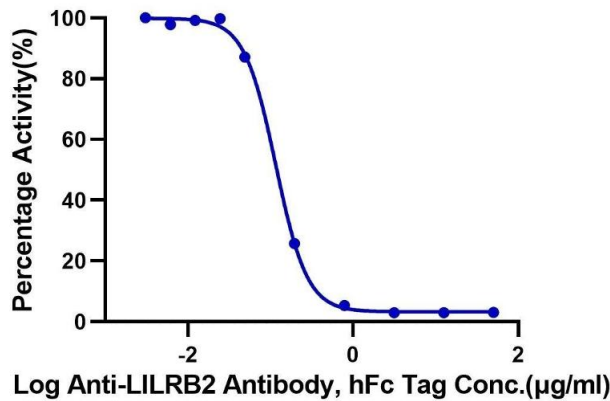
Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Inhibition of Human LILRB2 and HLA-G Binding

0.2µg Human LILRB2, mFc Tag Per Well



Binding Studies

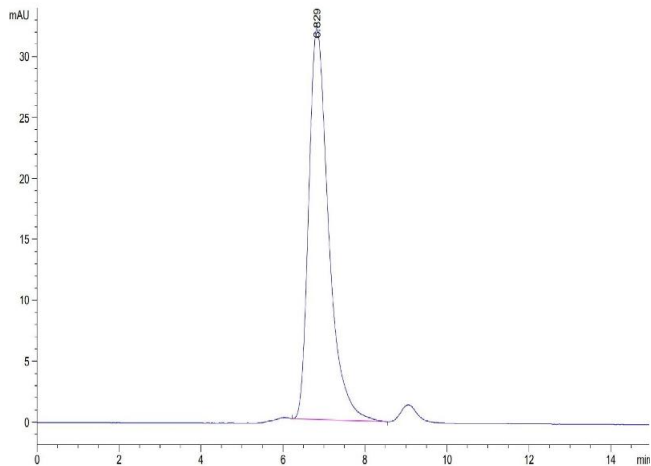
Image 1. Serial dilutions of Anti-LILRB2 Antibody were added into Human HLA-G Tetramer, His Tag : Human LILRB2, mFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 0.11 µg/mL.

SDS-PAGE

Image 2. Human HLA-G Complex Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95 % .

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human HLA-G Complex Tetramer is greater than 95 % as determined by SEC-HPLC.



Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7274817.