

Datasheet for ABIN7275185

**LILRB1 Protein (AA 24-458) (His-Avi Tag)****4** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	LILRB1
Protein Characteristics:	AA 24-458
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LILRB1 protein is labelled with His-Avi Tag.

## Product Details

Purpose:	Human LILRB1/CD85j/ILT2 Protein
Sequence:	Gly24-His458
Characteristics:	Recombinant Human LILRB1/CD85j/ILT2 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly24-His458.
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:	Immobilized Human LILRB1, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-LILRB1 Antibody, hFc Tag with the EC50 of 15ng/ml determined by ELISA. See testing image for detail.

## Target Details

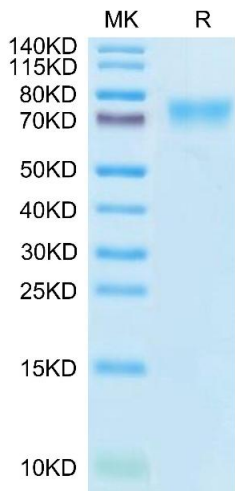
Target:	LILRB1
Alternative Name:	LILRB1 ( <a href="#">LILRB1 Products</a> )
Background:	LILRB1, also known as CD85j and ILT2, is a 110 kDa transmembrane glycoprotein in the LILR immunoregulatory protein family. Mature human LILRB1 consists of a 438 amino acid (aa) extracellular domain (ECD) with 4 tandem Ig-like domains, a 21 aa transmembrane segment, and a 168 aa cytoplasmic domain with 4 inhibitory ITIM motifs. LILRB1 is a receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles. Receptor for H301/UL18, a human cytomegalovirus class I MHC homolog. Ligand binding results in inhibitory signals and down-regulation of the immune response.
Molecular Weight:	50 kDa. Due to glycosylation, the protein migrates to 72-78 kDa based on Tris-Bis PAGE result.
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

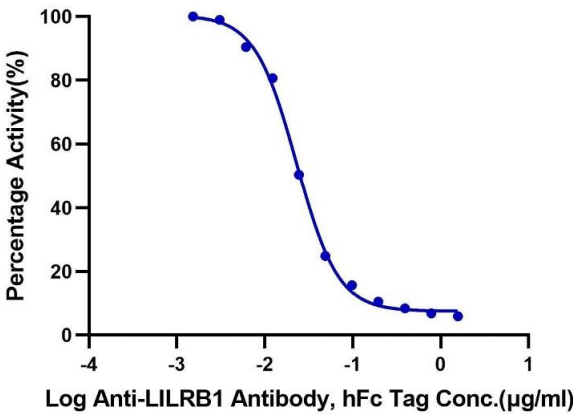
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant 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



SDS-PAGE

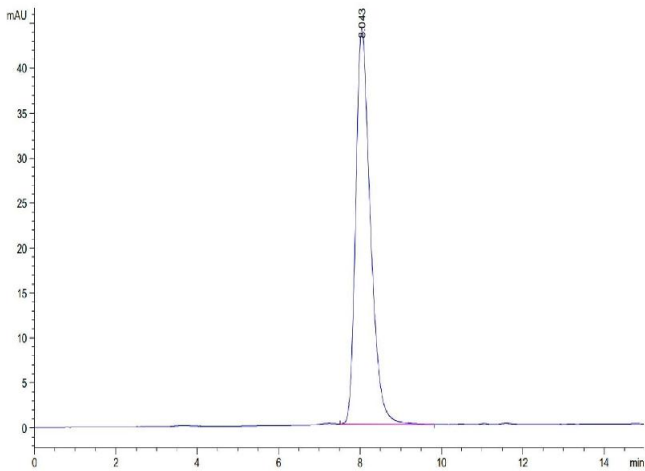
**Image 1.** Human LILRB1 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95 % .

Inhibition of Human LILRB1 and HLA-G Binding  
0.2µg Human LILRB1, His Tag Per Well



Binding Studies

**Image 2.** Serial dilutions of Anti-LILRB1 Antibody were added into Biotinylated Human HLA-G Complex Tetramer, His Tag : Human LILRB1, His Tag binding reactions. The half maximal inhibitory concentration (IC50) is 23 ng/mL.



Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Human LILRB1 is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275185.