



**Synonym**

LILRB2,ILT4,LIR2,MIR10,CD85d

**Source**

Biotinylated Human LILRB2, Fc,Avitag(LI2-H82F5) is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Val 461 (Accession # [AAH36827.1](#)).

Predicted N-terminus: Gln 22

**Molecular Characterization**

LILRB2(Gln 22 - Val 461) AAH36827.1	Fc(Pro 100 - Lys 330) P01857	Avi
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This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 76.2 kDa. The protein migrates as 90-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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**

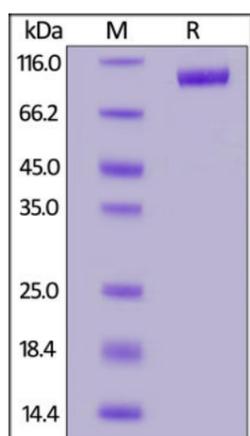
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please 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.

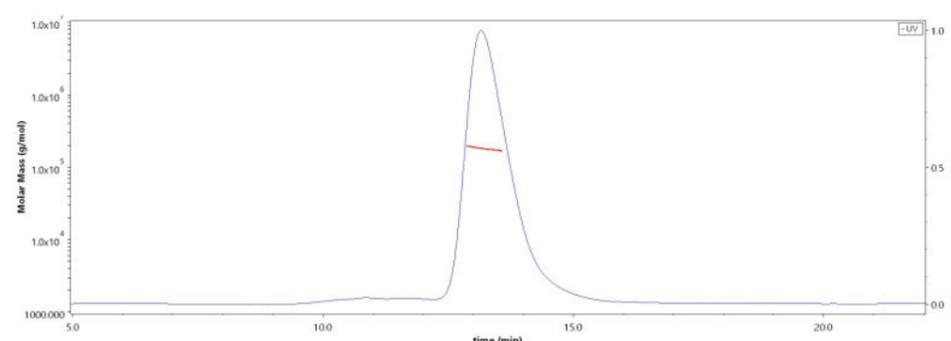
**SDS-PAGE**



Biotinylated Human LILRB2, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**

**SEC-MALS**

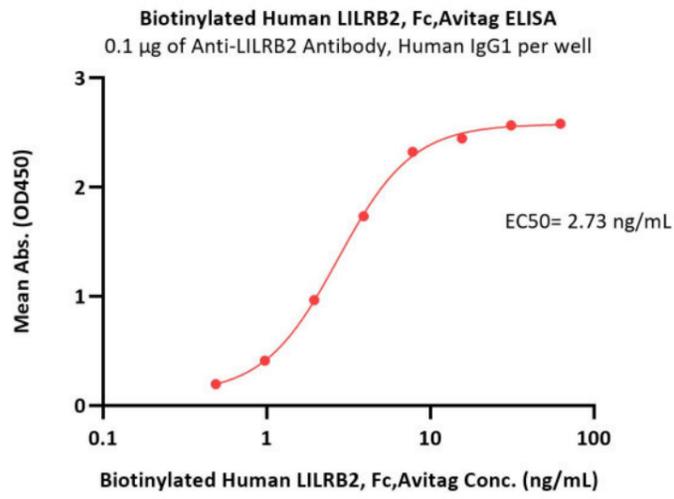


The purity of Biotinylated Human LILRB2, Fc,Avitag (Cat. No. LI2-H82F5) is more than 90% and the molecular weight of this protein is around 165-201 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Anti-LILRB2 Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human LILRB2, Fc,Avitag (Cat. No. LI2-H82F5) with a linear range of 1-16 ng/mL (QC tested).

## Background

Leukocyte immunoglobulin-like receptor subfamily B member 2 (LILRB2) is also known as CD85 antigen-like family member D (CD85d), Immunoglobulin-like transcript 4 (ILT-4), Monocyte / macrophage immunoglobulin-like receptor 10 (MIR-10), which is a member of the the subfamily B class of LIR receptors. LILRB2 is receptor for class I MHC antigens. LILRB2 recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles. LILRB2 competes with CD8A for binding to class I MHC antigens. LILRB2 / CD85d inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions.

## Clinical and Translational Updates

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