

# Biotinylated Human LILRB4/CD85k/ILT3 Protein, Ultra Low Endotoxin

Cat. No. LIL-HM4B4B-UL

## Description

<b>Source</b>	Recombinant Biotinylated Human LILRB4/CD85k/ILT3 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln22-His257.
<b>Accession</b>	Q8NHJ6-1
<b>Molecular Weight</b>	The protein has a predicted MW of 28.6 kDa. Due to glycosylation, the protein migrates to 38-42 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 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>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

LILRB4, also known as CD85k and LIR-5, ILT3, is an approximately 60 kDa transmembrane glycoprotein that negatively regulates immune cell activation. Mature human ILT3 consists of a 238 amino acid (aa) extracellular domain with two Ig-like domains, a 21 aa transmembrane segment, and a 168 aa cytoplasmic domain with 3 immunoreceptor tyrosine-based inhibitory motifs (ITIM). LILRB4 is receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles.

## Assay Data

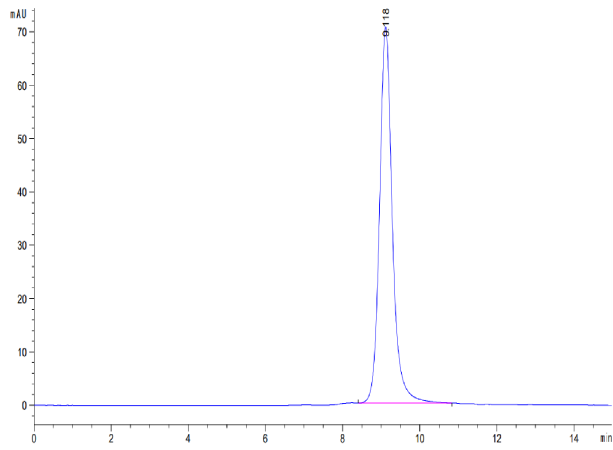
### Bis-Tris PAGE



Biotinylated Human LILRB4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



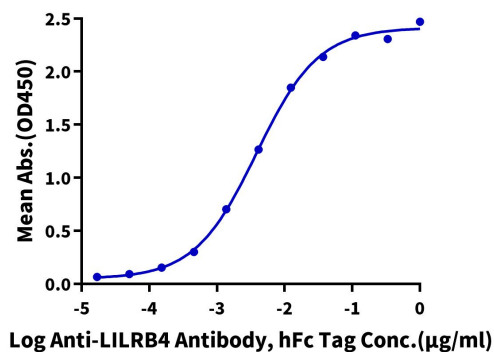
The purity of Biotinylated Human LILRB4 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human LILRB4, His Avi Tag ELISA**

0.05µg Biotinylated Human LILRB4, His Avi Tag Per Well



Immobilized Biotinylated Human LILRB4, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-LILRB4 Antibody, hFc Tag with the EC50 of 1.0µg/ml determined by ELISA.