

## LILRB1/CD85j/ILT2 Protein, Human, Recombinant (aa 24-458, hFc)

### General Information

Synonyms:	XXbac-BCX85G21.4;MIR7;CD85J;LILRB1;LIR1;ILT2FLJ37515;ILT2;ILT-2
Protein Construction:	Gly24-His458
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NHL6-1
Molecular Weight:	73.8 kDa (predicted). Due to glycosylation, the protein migrates to 78-105 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Immobilized Human LILRB1, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-LILRB1 Antibody, hFc Tag with the EC50 of 10.0ng/ml determined by ELISA.</li><li>2. Human LILRB1, hFc Tag captured on Protein A Chip can bind Human HLA-G Tetramer, His Tag with an affinity constant of 1.49nM as determined in SPR assay.</li></ol>
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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

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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.

### Reference

Apps R, et al. A homodimeric complex of HLA-G on normal trophoblast cells modulates antigen-presenting cells via LILRB1 [J]. European Journal of Immunology, 2007, 37(7):1924-1937.

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