

Recombinant Human LILRB2, His-tagged

Cat. No. LILRB2-115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Leukocyte Immunoglobulin-Like Receptor Subfamily B Member 2/LILRB2 produced by transfected human cells is a secreted protein with sequence (Gln22-His458) of Human LILRB2 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	22-458 a.a.
Description	Members of the immunoglobulin-like transcript (ILT) family are activating and inhibitory immunoreceptors whose genes are located same locus that encodes killer cell Ig-like receptors (KIR). Leukocyte Immunoglobulin-Like Receptor Subfamily B Member 2 (LIR-2) is a type I transmembrane protein. LIR-2 is expressed primarily on monocytes and dendritic cells (DC). Human LIR-2 is produced as a 598 amino acid precursor including a 21 aa signal sequence, a 440 aa extracellular domain (ECD), a 21 aa transmembrane segment, and a 116 aa cytoplasmic domain. LIR-2 binds to Classical MHC I proteins. Ligation of LIR-2 includes Tyr phosphorylation within its cytoplasmic ITIMs, a requirement for association with SHP-1. LIR-2 mediates tolerogenic DC-induced CD4 ⁺ T cell energy in vitro and in vivo.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.2
AA Sequence	QTGTIPKPTLWAEPSVITQGSPVTLSCQGSLEAQEYRLYREKKSASWITRIRPELVK NGQFHIP SITWEHTGRYGCQYYSRARWSELSDPLVLVMTGAYPKPTLSAQPSPVVT

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SGGRVTLQCESQVAFG GFILCKEGEDEHPQCLNSQPHARGSSRAIFSVGPVSPNR
 RWSHRCYGYDLNSPYVWSSPSDLLEL LVPGVSKKPSLSVQPGPVVAPGESLTLQC
 VSDVG YDRFVLYKEGERDLRQLPGRQPQAGLSQANF TLGPVSRSYGGQYRCYGA
 YNLSSEWSAPSDPLDILITGQIHGTPFISVQPGPTVASGENVTLLCQ SWRQFHTFLLT
 KAGAADAPLRLRSIHEYPKYQAEFPMSPV TSAHAGTYRCYGSLNSDPYLLSHPS EP
 LELVVSGPSMGSSPPPTGPISTPAGPEDQPLTPTGSDPQSG LGRHVDHHHHHH

Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	LILRB2 leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2 [Homo sapiens]
Official Symbol	LILRB2
Synonyms	LILRB2; leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2; leukocyte immunoglobulin-like receptor subfamily B member 2; CD85d; ILT4; LIR 2; LIR2; MIR 10; MIR10; ILT-4; Ig-like transcript 4; immunoglobulin-like transcript 4; CD85 antigen-like family member D; leukocyte immunoglobulin-like

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receptor 2; monocyte/macrophage immunoglobulin-like receptor 10; leukocyte immunoglobulin-like receptor subfamily B member 2 soluble isoform; leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6; CD85D; LIR-2; LILRA6; MIR-10;

Gene ID [10288](#)

mRNA Refseq [NM_001080978](#)

Protein Refseq [NP_001074447](#)

MIM [604815](#)

UniProt ID [Q8N423](#)

Chromosome Location 19q13.4

Pathway Adaptive Immune System, organism-specific biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem;

Function MHC class I protein binding; MHC class I protein binding; MHC class Ib protein binding; cell adhesion molecule binding; eukaryotic cell surface binding; inhibitory MHC class I receptor activity; inhibitory MHC class I receptor activity; protein binding; protein phosphatase 1 binding; receptor activity;

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