

LILRB2/CD85d/ILT-4 Protein, Human (Biotinylated, HEK293, Avi-His)

Cat. No.:	HY-P72396
Synonyms:	LIR-2; CD85 Antigen-Like Family Member D; Immunoglobulin-Like Transcript 4; ILT-4; CD85d; ILT4; LIR2; MIR10
Species:	Human
Source:	HEK293
Accession:	Q8N423 (Q22-H458)
Gene ID:	10288
Molecular Weight:	60-80 kDa

PROPERTIES

AA Sequence	<p>Q T G T I P K P T L W A E P D S V I T Q G S P V T L S C Q G S L E A Q E Y R L Y</p> <p>R E K K S A S W I T R I R P E L V K N G Q F H I P S I T W E H T G R Y G C Q Y Y</p> <p>S R A R W S E L S D P L V L V M T G A Y P K P T L S A Q P S P V V T S G G R V T</p> <p>L Q C E S Q V A F G G F I L C K E G E E E H P Q C L N S Q P H A R G S S R A I F</p> <p>S V G P V S P N R R W S H R C Y G Y D L N S P Y V W S S P S D L L E L L V P G V</p> <p>S K K P S L S V Q P G P V V A P G E S L T L Q C V S D V G Y D R F V L Y K E G E</p> <p>R D L R Q L P G R Q P Q A G L S Q A N F T L G P V S R S Y G G Q Y R C Y G A H N</p> <p>L S S E C S A P S D P L D I L I T G Q I R G T P F I S V Q P G P T V A S G E N V</p> <p>T L L C Q S W R Q F H T F L L T K A G A A D A P L R L R S I H E Y P K Y Q A E F</p> <p>P M S P V T S A H A G T Y R C Y G S L N S D P Y L L S H P S E P L E L V V S G P</p> <p>S M G S S P P P T G P I S T P A G P E D Q P L T P T G S D P Q S G L G R H</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The LILRB2/CD85d/ILT-4 Protein serves as a receptor for class I MHC antigens, demonstrating recognition across a broad
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spectrum of HLA-A, HLA-B, HLA-C, HLA-G, and HLA-F alleles. It plays a crucial role in immune response down-regulation and the establishment of tolerance. Specifically, it recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide, leading to the differentiation of type 1 regulatory T cells and myeloid-derived suppressor cells, crucial for maintaining maternal-fetal tolerance. LILRB2 competes with CD8A for binding to class I MHC antigens and inhibits FCGR1A-mediated cellular responses, including phosphorylation of proteins and mobilization of intracellular calcium ions. Moreover, it interacts with PTPN6 when phosphorylated and binds to FCGR1A. The direct interactions with peptide-bound HLA-G-B2M and HLA-F-B2M further highlight its involvement in immune modulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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