

Recombinant Protein Technical Manual Recombinant Human LILRA5 Protein (His Tag)

RPES1246

Product Data:

Product SKU: RPES1246	
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Species: Human

Size: 10µg

Expression host: Human Cells

Uniprot: A6NI73

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Molecular Mass:	26.1 kDa	
AP Molecular Mass:	35-40 kDa	
Tag:	C-His	
Bio-activity:		
Purity:	> 95% as determined by reducing SDS-PAGE.	
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.	
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4.	
Reconstitution:	Please refer to the printed manual for detailed information.	
Application:		
Synonyms:	Leukocyte immunoglobulin-like receptor subfamily A member 5; CD85 antigen-like family member F; Immunoglobulin-like transcript 11; ILT1; Leukocyte immunoglobulin-like receptor 9; LIR-9; CD85f; LILRA5; LILRB7;CD85F;ILT11;LILRB7;LIR-9;LIR9	

Sequence: Gly42-Arg268

Background:

Leukocyte Immunoglobulin-like Receptor Subfamily A Member 5 (LILRA5) is a member of the leukocyte immunoglobulin-like receptors (LILR), comprise a family of activating and inhibitory type immunoreceptors. LILRA5 consists of a 227 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and a 10 aa cytoplasmic tail. The ECD contains two Ig-like domains and the transmembrane segment contains a positively charged aspartic acid residue which may mediate its association with the signaling molecule, FCR common gamma chain. LILRA5 is expressed by monocytes, macrophages, and neutrophils. Cross-linking of LILRA5 on monocytes induces the expression of pro-inflammatory cytokines (ILbeta, IL-6, TNF-alpha) as well as the anti-inflammatory ILO. It can be detected in tissues of the hematopoietic system, including bone marrow, spleen, lymph node and peripheral leukocytes. Crosslink of ILT1 on the surface of monocytes has been shown to induce calcium flux and secretion of several proinflammatory cytokines, which suggests the roles of this protein in triggering innate immune responses.