

Recombinant Mouse LILRB4 protein, Fc-tagged

Cat. No. LILRB4-316M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse LILRB4 protein (Gly24-Lys238), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	215
Description	Leukocyte immunoglobulin-like receptor subfamily B member 4 (LILRB4) is also known as CD85 antigen-like family member K (CD85K), Immunoglobulin-like transcript 3 (ILT-3), Leukocyte immunoglobulin-like receptor 5 (LIR-5), Monocyte inhibitory receptor HM18, which belongs to the leukocyte immunoglobulin-like receptor (LIR) family. LILRB4/CD85K contains 2 Ig-like C2-type (immunoglobulin-like) domains. CD85K is detected in monocytes, macrophages, dendritic cells, lung, natural killer cells and B-cells. LILRB4/CD85K is receptor for class I MHC antigens. CD85K recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles, involved in the down-regulation of the immune response and the development of tolerance. LILRB4 interferes with TNFRSF5-signaling and NF-kappa-B up-regulation and inhibits receptor-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 50.7 kDa. As a result of glycosylation, the protein migrates as 60-66 kDa under reducing (R) condition, and 120-140 kDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	LILRB4
Official Symbol	LILRB4
Synonyms	HM18; ILT3; gp49; CD85K; Gp49b; LIR-5
Gene ID	14728
mRNA Refseq	NM_013532.2
Protein Refseq	NP_038560.1

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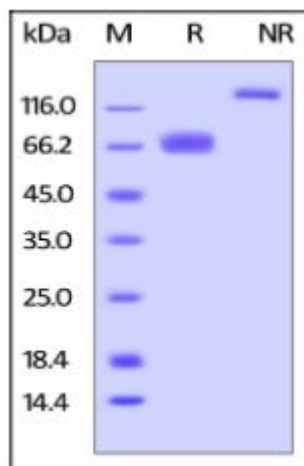
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UniProt ID

Q64281

SDS-PAGE of
LILRB4-316M



Mouse LILRB4, Fc Tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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