# Recombinant Mouse LILRB4 protein, Fc-tagged

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

## SPECIFICATION

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| **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. |

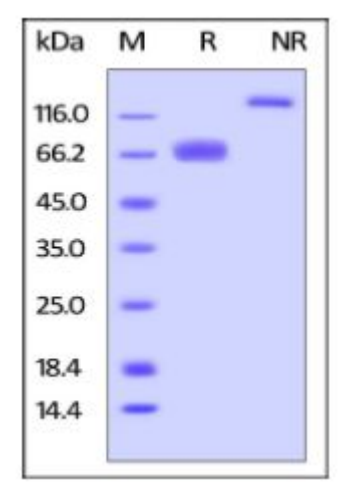
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| **Molecular Mass** | The protein has a calculated MW of 50.7 kDa. As a result of glycosylation, the protein migrates as 60-66 kDa under reducing (R) condition, and 120-140 kDa under non-reducing (NR) condition (SDS-PAGE). |
| **Endotoxin** | Less 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.<br>Please avoid repeated freeze-thaw cycles.<br>This product is stable after storage at:<br>-20 centigrade to -70 centigrade for 12 months in lyophilized state;<br>-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℃ before opening to recover the entire contents. |

## GENE INFORMATION

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| **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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| **UniProt ID** | Q64281 |
| **SDS-PAGE of LILRB4-316M** | <br>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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