

Recombinant Mouse LRB4A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51675

Size: 10ug, 100ug

Protein Name: Leukocyte immunoglobulin-like receptor subfamily B member 4A (Mast cell surface glycoprotein Gp49B) (CD antigen CD85k)

Synonym: Lilrb4a, Gp49b

UniProt ID: Q64281

UniProt Link: www.uniprot.org/uniprotkb/Q64281/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 335 AA

Molecular Weight: 38 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MIAMLTVLLYLGLILEPRTAVQAGHLPKPIIWAEPGSVIAAYTSVITWCQGSWEAQYYHLYKEKSVNP
WDTQVPLETRNKAKFNIPSMTTSYAGIYKCYYESAAGFSEHSDAMELVMTGAYENPSLSVYPSSNV
TSGVSISFSCSSSIVFGRFILIQEGKHGLSWTLDSQHQANQPSYATFVLDAVTPNHNGTFRCYGYFR
NEPQVWSKPSNSLDLMISETKDQSSTPTEDGLETYQKILIGVLVSFLLFFLLLFLILIGYQYGHKKKAN
ASVKNTQSENNAELNSWNPQNEPQGIVYAQVKPSRLQKDTACKETQDVTYAQLCIRTQEQNNS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Leukocyte immunoglobulin-like receptor subfamily B member 4A (Mast cell surface glycoprotein Gp49B) (CD antigen CD85k) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Inhibitory receptor involved in the down-regulation of the immune response (PubMed:10026201, PubMed:24935931). Receptor for FN1 (PubMed:34089617). Receptor for integrin ITGAV/ITGB3 (PubMed:11323698). Inhibits IgE-mediated mast cell activation, at least in part through interaction with ITGAV/ITGB3 (PubMed:10026201, PubMed:11323698, PubMed:11457897, PubMed:8855262). Also inhibits KITLG/SCF-mediated mast cell activation (PubMed:12884301). Through interaction with ITGAV/ITGB3, inhibits antibody production by memory and marginal zone B cells, probably by suppressing their differentiation into plasma cells (PubMed:24935931). Inhibits IFNG production by CD8 T cells, CD4 T cells and natural killer cells (PubMed:12682239). Inhibits antigen presentation by dendritic cells to T cells, preventing T cell activation (PubMed:18792399). Inhibits lipopolysaccharide-mediated neutrophil-dependent vascular injury (PubMed:14557414). Suppresses the allergic inflammatory response by inhibiting infiltration of neutrophils and eosinophils and preventing mast cell degranulation (PubMed:17761953). Inhibits lysis by natural killer cells (PubMed:8977169).

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.