

Recombinant Mouse RFTN1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51688

Size: 10ug, 100ug

Protein Name: Raftlin (Raft-linking protein)

Synonym: Rftn1, Kiaa0084

UniProt ID: Q6A0D4

UniProt Link: www.uniprot.org/uniprotkb/Q6A0D4/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 554 AA

Molecular Weight: 62 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGCSLNKLEKREEKRPGNIYSTLKRQVETKVDVTEYECFLEFTTLTAAELPRSSATRLASLRDLPDQ
LLELYQQGFSLAALHPFVQPTRRQEKILLEHIFRAILVKKTNRSQKAEHDEGYTLELDYCSSLEHLAD
QKLIPEFIKKVQEAASQGLKFVSVVPQYQPSVSSAGSRRLKPVANSVEDARDVKCTLGDRSSLENDT
PKAAETDAATAGVNRPRPETKPGSTGDVPSAQQPGIPSPSAENEAGEFPLRGLQPALDRSEGDPNS
GPEELPSRKMEIFAFFNRPKSQQKCRQYYPVTIPLQVSKNGQTVSSLDASWLEHMSDHFRKGGVLV
NAVFQLGMANDSFYGLTDGVFIFEAVSTEDNRTTQGYDAIVVEQWTVLEGTEVQTDYMPLLNSLAAY
GWQLTCVLPTPILKTTREGENVSTKQIVFLQRPCLPQKTKKRESKFQWRFSRNEIHGRQTRKSKGKLS
ASNKQQAENEKNLEDQFSKAGDVGNCVLGAPQWGRASEVREQRQGSAAVQNGPAGHNRDSVA
LRHSNPRAEAELAAGPTPTAN

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 Raftlin (Raft-linking protein) 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: Involved in protein trafficking via association with clathrin and AP2 complex (By similarity). Upon bacterial lipopolysaccharide stimulation, mediates internalization of TLR4 to endosomes in dendritic cells and macrophages, and internalization of poly(I:C) to TLR3-positive endosomes in myeloid dendritic cells and epithelial cells; resulting in activation of TICAM1-mediated signaling and subsequent IFNB1 production (PubMed:27022195). Involved in T-cell antigen receptor-mediated signaling by regulating tyrosine kinase LCK localization, T-cell dependent antibody production and cytokine secretion (PubMed:19414744). May regulate B-cell antigen receptor-mediated signaling (By similarity). May play a pivotal role in the formation and/or maintenance of lipid rafts (By similarity).

Subcellular Localization: Cell membrane ; Lipid-anchor . Cytoplasm . Membrane raft . Endosome . Early endosome . Note=Translocates from cytoplasm to cell membrane where it colocalizes with poly(I:C) and then moves to endosomes where it colocalizes with TLR3. Translocates from cytoplasm to cell membrane where it colocalizes with TLR4 and then together with TLR4 moves to endosomes, upon lipopolysaccharide stimulation (PubMed:27022195).

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.