

Recombinant Rat GAB2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52569

Size: 10ug, 100ug

Protein Name: GRB2-associated-binding protein 2 (GRB2-associated binder 2) (Growth factor receptor bound protein 2-associated protein 2)

Synonym: Gab2

UniProt ID: Q9EQH1

UniProt Link: www.uniprot.org/uniprotkb/Q9EQH1/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 665 AA

Molecular Weight: 73 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSGGGGDDVVCTGWLKSPPEKKLRRYAWKKRWFILRSGRMSGDPDVLEYYKNEHSSKKPLRIINL
NFCEQVDAGLTFNKKELQDSFVFDIKTSERTFYLVAETEAMNKKWVQSICQICGFNQAEESTDSLRLN
LSSASHGPRSSPAEFSSSQHLLRERKSSAPSHSSQPTLFTFEPMTSHMQPALSTSAPQEYLYLHQ
CISRTENSRSASFSGQTRQKSDTAVQKLAQSNHGHCINGVSNQVHGFYSLPKPSRHNTFEKDYD
LPRSLASHGHTKSSLTGSETDNEVDYTFKMPSTLCREFGDLLVDNMDVPTTPLSAYQIPRTFTLDK
NHNAMTVATSGDSAIAAPPPRPPKPSQAETPRWGSPQQKPPIGENSRVAATIPRRNTLPAMDNSRL
HRASSCETYEYPTRGSGESASWSAESPAGKTAVGRSDSASSDENYVPMNPGSSTLLAMERAGDNS
QSAYIPMGPGPHHFDPLGYPTALPIHRGPSRGSEIQPPPVNRLKPDRKAKPTPLDLRNNTVIDELP
FKSPVTKSWSRINHTFNSSSSQYCRPISTQSITSTDSGDSEENYVPMQNPVSASPVPSTNSPAPRK
STGSVDYLALDFQPGSPSPHRKPSTSSVTSDEKVDYVQVDKEKTQALQNTMQEWTDVRQSSEPSK
GAKL

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 GRB2-associated-binding protein 2 (GRB2-associated binder 2) (Growth factor receptor bound protein 2-associated protein 2) 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: Adapter protein which acts downstream of several membrane receptors including cytokine, antigen, hormone, cell matrix and growth factor receptors to regulate multiple signaling pathways. Regulates osteoclast differentiation mediating the TNFRSF11A/RANK signaling. In allergic response, it plays a role in mast cells activation and degranulation through PI-3-kinase regulation. Also involved in the regulation of cell proliferation and hematopoiesis (By similarity).

Subcellular Localization: Cytoplasm . Cell membrane . Membrane raft .

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.