

Recombinant Rat SH2B2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52615

Size: 10ug, 100ug

Protein Name: SH2B adapter protein 2 (Adapter protein with pleckstrin homology and Src homology 2 domains) (SH2 and PH domain-containing adapter protein APS)

Synonym: Sh2b2, Aps

UniProt ID: Q9Z200

UniProt Link: www.uniprot.org/uniprotkb/Q9Z200/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 621 AA

Molecular Weight: 67 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MNGATPGSAAAPAPVPDWRQFCELHAQVAAVDFAHKFCRFLRDNPTYDTPDAGTSFSRHFANFL
AVFSEEVRRVLGTAADTMEPEPAVTSVTSALKTATYGHSSSEDVSAHVATKARVRKGFSLRNMSL
CVVDGVRDLWHRRASPEPEGGATPKTTEPVSEPRDKWTRRLRLARTLAAKVELVDIQREGALRFMV
ADDAASGPGGTAQWQKCRLLRRAVAGERFRLEFFVPPKASRPKVSIPLSAIIIVRTTMPLEMPKD
NTFVLKVENGAHEYILETIDSLQKHSWVADIQGCVDPGDSEEDTGLSCARGGCLASRVTSCCELLTE
ADMPPPETMTAVGAVVTAPHGRARDTVGESLAHVPLETFLQTLESSGGVSESNNNGDEGAELDP
DAEAELELSDYPWFHGTLSRVKAAQLVLAGGPRSHGLFVIRQSETRPGECVLTFFNFQGKAKHLRLSL
NGHGQCHVQHLWFQSVFDMLRHFHHTPIPLESGGSADITLRSYVRAQGPPDPGPAPNTAAPVPA
CWTEPAGQHVFSSLATATCPPTSPSNGAGASSSSGSSSSSATSVPPrPAEGPLSARSRNSTEHLLE
AASGATEEPADATLGRARAVENQYSFY

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 SH2B adapter protein 2 (Adapter protein with pleckstrin homology and Src homology 2 domains) (SH2 and PH domain-containing adapter protein APS) 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 for several members of the tyrosine kinase receptor family. Involved in multiple signaling pathways. Binds to EPOR and suppresses EPO-induced STAT5 activation, possibly through a masking effect on STAT5 docking sites in EPOR. Suppresses PDGF-induced mitogenesis (By similarity). Involved in stimulation of glucose uptake by insulin. Involved in coupling from immunoreceptor to Ras signaling. Acts as a negative regulator of cytokine signaling in collaboration with CBL. Induces cytoskeletal reorganization and neurite outgrowth in cultured neurons.

Subcellular Localization: Cytoplasm. Membrane. Note=Recruited to the membrane by binding to an autophosphorylated receptor after receptor stimulation by its extracellular ligand.

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.