

Recombinant Human BCAP Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50061

Size: 10ug, 100ug

Protein Name: Phosphoinositide 3-kinase adapter protein 1 (B-cell adapter for phosphoinositide 3-kinase) (B-cell phosphoinositide 3-kinase adapter protein 1)

Synonym: PIK3AP1, BCAP

UniProt ID: Q6ZUJ8

UniProt Link: www.uniprot.org/uniprotkb/Q6ZUJ8/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 805 AA

Molecular Weight: 90 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAASGVPRGCDILIVYSPDAEEWCQYLQTLFLSSRQVRSQKILTHRLGPEASFS AEDLSLFLSTRCVV
VLLSAELVQHFKPALLPLLQRAFHPPHRVVRLLCGVRDSEEFLLDFPDWAHWQELTCDDEPETYV
AAVKKAISED SGCDSDTDTEPEDEKVVSYKQQNLPTVTSPGNLMVVQPDRI RCGAETTVYVIVRCK
LDDRVA TEAEFSPEDSPSVRMEAKVENEYTISVKAPNLSSGNVSLKIYSGDLVVCETVISYYTDMEEI
GNLLSNAANPVEFMCQAFKIVPYNTETLDKLLTESLKNNIPASGLHLFGINQLEEDMMTNQRDEELP
TLLHFAAKYGLKNLTALLLTCPGALQAYSVANKHGHYPNTIAEKHGFRDLRQFIDEYVETVDMLKSHI
KEELMHGEEADAVYESMAHLSTDLLMKCSLNP GCDEDLYESMAAFVPAATEDLYVEM LQASTSNPI
PGDGF SRATKDSMIRKFLEGN SMGMTNLERDQCHLGQEEDVYHTVDDDEAFSVDLASRPPVPVPR
PETTAPGAHQLPDNEPYIFKVFAEKSQERPGNFYVSSESIRKGPPVRPWRDRPQSS IYDPFAGMKT
PGQRQLITLQE QVKLGIVNVDEAVLHFKEWQLNQKKRSESFRFQQENLKRLRDSITRRQREKQKSG
KQTDLEITVPIRHSQHLP AKVEFGVYESGPRKSVIPRTELRRGDWKT DSTSSTASSTSNRSSTRSL
SVSSGMEGDNEDNEVPEVTRSRSPGPPQVDGTP TMSLERPPRVPPRAASQRPPTRETFHPPPPVP
PRGR

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 Phosphoinositide 3-kinase adapter protein 1 (B-cell adapter for phosphoinositide 3-kinase) (B-cell phosphoinositide 3-kinase adapter protein 1) 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: Signaling adapter that contributes to B-cell development by linking B-cell receptor (BCR) signaling to the phosphoinositide 3-kinase (PI3K)-Akt signaling pathway. Has a complementary role to the BCR coreceptor CD19, coupling BCR and PI3K activation by providing a docking site for the PI3K subunit PIK3R1. Alternatively, links Toll-like receptor (TLR) signaling to PI3K activation, a process preventing excessive inflammatory cytokine production. Also involved in the activation of PI3K in natural killer cells. May be involved in the survival of mature B-cells via activation of REL.

Subcellular Localization: Cytoplasm . Cell membrane ; Peripheral 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.