

Recombinant Mouse CC88B Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51599

Size: 10ug, 100ug

Protein Name: Coiled-coil domain-containing protein 88B (Gipie) (Hook-related protein 3) (HkRP3)

Synonym: Ccdc88b, Ccdc88

UniProt ID: Q4QRL3

UniProt Link: www.uniprot.org/uniprotkb/Q4QRL3/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1481 AA

Molecular Weight: 167 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEGAKGPRLRGFLSGSLATWALGLAGLVGEAEESAGGTEEEEEEEEEEGALCTEKRFLRLIDGALL
RVLGIIAPSSRGGLRMVRGRDGPAAACRMWNLCGLWGRLRDFYQEELQLLILSPPPDLQTMGCDPFS
EEAVDELESILRLLLGASVQCEHRELFIRHIRGLSLDVQSELAGAIQEVTPGAGVVLALAGPESGELV
AEELEMQLRSLTGMM SRLARERDLGAQRLAELLEREP AHLLLPEAPANASAEGVSHHLALQLTNAK
AQLRRLRQEVEEKAEQLLDSQAEVQGLEAEIRRLRQETQALSAQAKRAELYREEAEALRERAGRLP
RLQEELRRCREKLQAAEVFKGQLEEEERVLSEALEASKVLLLEEQLVARERSARLHETQRENLLLRT
LGEAHADLDSLRHQLEQLVEENVELELELQRSLEPPPGSPGEASLPGAAPSLQDEVREAEAGRLRA
VERENRELRGQLQMLQAQLGSQHPLLEE QRENSRQPPV PNRDPATPSALHHSPQSPACQIGGEGS
ESLDLPSPASYS DITRSPKCSQAPDSHP ELESPLQMV SQDPQTS DQALQESDPTVETHQCLEKSGH
RVPLQSPIVWDPPQGPEVRIEVQELLGETGSREAPQGELVHKAQVLKQESPKCRPRSAELTLREPLK
DQKALDRELELSKQKQETGRHEQRPKGLESKLGPQKPQQTSEGV PDAWSREPTPGETLVSAIPEE
QALRDEVAQLRREVAGLEVKLQAQAQRLEARSAEALCLSEELAQAARTEAEAHQEAEAEQAREQARL
REAVDTASLELEAASREREALAEALAAAGRERRQWERDGPRLRAQVEAAEQVQVALESQVRCHLE
EAEREHA EKQALREELEKAVLRGQELGDRLEHLQEELEQAALERQKFLQEENQHQR YRHLEQRL
EAE LQAAS TSKEEALMELKARALQLEELIQLRQYPVDLATGARAGPRTVETQNGRLIEVERN NATLV
AEKAALQGQLQHLEGQLGSLQGRAQELLLQSQRAQEHSSRLQAEKSMMEMQGQELHRKLG VLEE
EVRAARRAQEETR GQQQALLRDHEALVQLQRRQETELEGLLV RHRDLKANMRALELAHRELQGRH
EQLQAQRANVEAQEVALLAERERLMQDGHRRQGLEEELRRLQNEHERAQMLLAEVSRERGELQG



ERGELRSRLARLELERAQLEIQSQQLRESNQQLDLSACRLTTQCELLTQLRSAQEEENRQLLAEVQA
LSRENRELLERSLESRDHLHREQREYLDQLNALRREKQKLVEKIMDQYRVLEPGPLPRTKKGSWLA
DKVKRLIRPRREGALHGGPRLGADGAGSTESLGGPLETELPEGREADGTGSSSPAPMRRVQSSLCL
GDETLAGGQRRRLSSRFPGGRSSASFSPGDTPRQRFRQRRPGPLGAPSTHSGSGVWDGSIKTL
SEHEADDTREAFQEQKPEKQFLTPSLSQ

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 Coiled-coil domain-containing protein 88B (Gipie) (Hook-related protein 3) (HkRP3) 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: Acts as a positive regulator of T-cell maturation and inflammatory function. Required for several functions of T-cells in both the CD4(+) and the CD8(+) compartments and this includes expression of cell surface markers of activation, proliferation, and cytokine production in response to specific or non-specific stimulation and during the course of infection with the mouse malaria parasite *Plasmodium berghei* (PubMed:25403443). Enhances NK cell cytotoxicity by positively regulating polarization of microtubule-organizing center (MTOC) to cytotoxic synapse, lytic granule transport along microtubules, and dynein-mediated clustering to MTOC (By similarity). Interacts with HSPA5 and stabilizes the interaction between HSPA5 and ERN1, leading to suppression of ERN1-induced JNK activation and endoplasmic reticulum stress-induced apoptosis (PubMed:21289099).

Subcellular Localization: Membrane ; Peripheral membrane protein . Cytoplasm, cytoskeleton, microtubule organizing center . Endoplasmic reticulum . Golgi apparatus . Cytoplasm .

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.