

Recombinant Mouse NF2IP Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51141

Size: 10ug, 100ug

Protein Name: NFATC2-interacting protein (45 kDa NF-AT-interacting protein) (45 kDa NFAT-interacting protein) (Nuclear factor of activated T-cells, cytoplasmic 2-interacting protein)

Synonym: Nfatc2ip, Nip45

UniProt ID: O09130

UniProt Link: www.uniprot.org/uniprotkb/O09130/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 412 AA

Molecular Weight: 45 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAEPLRGRGPRSRGGRGARRARGARGRCPRARQSPARLIPDTVLVDLVSDSDEEVLEVADPVEVP
VARLPAPAKPEQDSDSDEGAAEGPAGAPRTLVRRRRRRLDLPGEAPVVPVYSGKVQSSNLIPDN
SSLLKLCPEPEDEADLTNSGSSPSEDDALPSGSPWRKKLRKKCEKEEKKMEEFDPQDISPLPQPS
SRNKSARKHTEALQKLREVNKRLQDLRSCLSPKQHQSPALQSTDDEVVLVEGPVLPQSSRLFTLKIRC
RADLVRLPVRMSEPLQNVVDHMANHLGVSPNRILLFGESELSPTATPSTLKLGVADIIDCVVLASSS
EATETSQELRLRVQGKEKHQMLEISLSPDSPLKVLMSHYEEAMGLSGHKLSFFFDGTLKSGKELPAD
LGLESGDLIEVWG

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 NFATC2-interacting protein (45 kDa NF-AT-interacting protein) (45 kDa NFAT-interacting protein) (Nuclear factor of activated T-cells, cytoplasmic 2-interacting 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: In T-helper 2 (Th2) cells, regulates the magnitude of NFAT-driven transcription of a specific subset of cytokine genes, including IL3, IL4, IL5 and IL13, but not IL2. Recruits PRMT1 to the IL4 promoter; this leads to enhancement of histone H4 'Arg-3'-methylation and facilitates subsequent histone acetylation at the IL4 locus, thus promotes robust cytokine expression. Down-regulates formation of poly-SUMO chains by UBE2I/UBC9.

Subcellular Localization: Nucleus. Cytoplasm. Note=TRAF1 is associated with a fraction of NFATC2IP in the cytoplasm and prevents its translocation to the nucleus.

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.