

Recombinant Mouse TRAF2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51401

Size: 10ug, 100ug

Protein Name: TNF receptor-associated factor 2 (EC 2.3.2.27) (E3 ubiquitin-protein ligase TRAF2) (RING-type E3 ubiquitin transferase TRAF2)

Synonym: Traf2

UniProt ID: P39429

UniProt Link: www.uniprot.org/uniprotkb/P39429/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 501 AA

Molecular Weight: 56 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAAASVTSPGSLELLQPGFSKTLTGTRLEAKYLC SACKNILRRPFQAQCGHRYCSFCLTSILSSGPQ
NCAACVYEGLYEEGISILESSSAFPD NAARREVESLPVCPNDGCTWKGT LKEYESCHEGLCPFLLT
ECPACKGLVRLSEKEHHTEQECPK RSLSCQHCRA PCSHVDLEVHYEVC PKFPLTCDGCGKKKIPRE
TFQDHVRACSKCRVLCRFHTVGCSE MVETENLQDHELQRLREHLALLLSSFLEAQASPGTLNQVGP
ELLQRCQILEQKIATFENIVCVLNRE VERVAVTAEACSRQHRLDQDKIEALSNKVQQLERSIGLKDLA
MADLEQKVSELEVSTYDGVFIWKISDFTRKRQEAVAGRTPAIFSPA FYTSRYGYKMCLRVYLN GDGT
GRGTHLSLFFVVMKGPNDALLQWPFNQKVTLM LLDHNNREHVIDAFRPDVTSSSFQRPVSDMNIAS
GCPLFCPVSKMEAKNSYVRDDAIFIKAIVDLTGL

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 TNF receptor-associated factor 2 (EC 2.3.2.27) (E3 ubiquitin-protein ligase TRAF2) (RING-type E3 ubiquitin transferase TRAF2) 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: E3 ubiquitin-protein ligase that regulates activation of NF-kappa-B and JNK and plays a central role in the regulation of cell survival and apoptosis (PubMed:15121867, PubMed:18997792, PubMed:19150425, PubMed:19409903, PubMed:19815541, PubMed:9390694). Catalyzes 'Lys-63'-linked ubiquitination of target proteins, such as BIRC3, IKBKE, MLST8, RIPK1 and TICAM1 (PubMed:15175328, PubMed:28489822). Is an essential constituent of several E3 ubiquitin-protein ligase complexes, where it promotes the ubiquitination of target proteins by bringing them into contact with other E3 ubiquitin ligases (By similarity). Regulates BIRC2 and BIRC3 protein levels by inhibiting their autoubiquitination and subsequent degradation; this does not depend on the TRAF2 RING-type zinc finger domain (PubMed:18997794). Plays a role in mediating activation of NF-kappa-B by EIF2AK2/PKR (By similarity). In complex with BIRC2 or BIRC3, promotes ubiquitination of IKBKE (By similarity). Acts as a regulator of mTORC1 and mTORC2 assembly by mediating 'Lys-63'-linked ubiquitination of MLST8, thereby inhibiting formation of the mTORC2 complex, while facilitating assembly of the mTORC1 complex (PubMed:28489822). Required for normal antibody isotype switching from IgM to IgG (PubMed:10514016).

Subcellular Localization: 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.