

Recombinant Human ZBTB1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51094

Size: 10ug, 100ug

Protein Name: Zinc finger and BTB domain-containing protein 1

Synonym: ZBTB1, KIAA0997

UniProt ID: Q9Y2K1

UniProt Link: www.uniprot.org/uniprotkb/Q9Y2K1/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 713 AA

Molecular Weight: 82 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAKPSHSSSYVLQQLNNQREWGFLCDCCIAIDDIYFQAHKAVLAACSSYFRMFFMNHQHSTAQLNLS
NMKISAEFCFDLILQFMYLGKIMTAPSSFEQFKVAMNYLQLYNVPDCLEDIQDADCSSSKCSSSASSK
QNSKMIFGVRMYEDTVARNNGNEANRWCAEPSSTVNTPHNREADEESLQLGNFPEPLFDVCKKSSV
SKLSTPKERVSRFRGSRFTCDSCGFGFSCEKLLDEHVLCTNRHLYQNTRSYHRIVDIRDGKDSNIK
AEFGEKDSSKTFSAQTDKYRGDTSQAADDSASTTGSRKSSSTVESEIASEEKSRAAERKRIIIMPEPED
IPTDELKDFNIIKVTDKDCNESTDNDELEDEPEEPFYRYYYVEEDVSIKKSGRRTLKPRMSVSADERGG
LENMRPPNNSSPVQEDAENASCELCGLTITEEDLSSHYLAKHIENICACGKCGQILVKGRQLQEHAQ
RCGEPQDLTMNGLGNTEEKMDLEENPDEQSEIRDMFVEMLDLDFRDNHYQINSIQKKQLFKHSACPF
RCPNCGQRFETENLVVEHMSSCLDQDMFKSAIMEENERDHRKHFENLCGKGFYQRCHLREHYTV
HTKEKQFVCQTCGKQFLRERQLRLHNDMHKGMARYVCSICDQGNFRKHDHVRHMISHLSAGETIC
QVCFQIFPNNEQLEQHMDVHLYTCGICGAKFNLRKDMRSHYNAKHLKRT

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 Zinc finger and BTB domain-containing 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: Acts as a transcriptional repressor (PubMed:20797634). Represses cAMP-responsive element (CRE)-mediated transcriptional activation (PubMed:21706167). In addition, has a role in translesion DNA synthesis. Requires for UV-inducible RAD18 loading, PCNA monoubiquitination, POLH recruitment to replication factories and efficient translesion DNA synthesis (PubMed:24657165). Plays a key role in the transcriptional regulation of T lymphocyte development (By similarity).

Subcellular Localization: Nucleus . Nucleus, nucleoplasm . Note=Localized in dot-like structures in the nucleus (PubMed:21706167). Colocalized with SMRT in nuclear bodies (PubMed:20797634). The sumoylated form is preferentially located in the nucleoplasm outside the nuclear bodies (PubMed:20797634).

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.