Recombinant human Transcription intermediary factor 1-beta protein

Catalog No: #AP71880

Package Size: #AP71880-1 20ug #AP71880-2 100ug #AP71880-3 1mg

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Recombinant human Transcription intermediary factor 1-beta protein
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:22-291aaSequence Info:Partial
Other Names	E3 SUMO-protein ligase TRIM28 (EC:6.3.2.-)KRAB-associated protein 1 ;KAP-1KRAB-interacting protein 1 ;KRIP-1Nuclear corepressor KAP-1RING finger protein 96Tripartite motif-containing protein 28
Accession No.	Q13263
Uniprot	Q13263
GeneID	10155;
Calculated MW	55.8 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	PGEGSAGGEKRSTAPSAAASASASASAAASSPAGGGAEALELLEHCGVCRERLRPEREPRLLPCLHSACSACLG PAAPAAANSSGDGGAAGDGTVVDCPVCKQQCFSKDIVENYFMRDSGSKAATDAQDANQCCTSCEDNAPAT SYCVECSEPLCETCVEAHQRVKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCDTLTCRDCQLN AHKDHQYQFLEDAVRNQRKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRV
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Nuclear corepressor for KRAB domain-containing zinc finger proteins (KRAB-ZFPs). Mediates gene silencing by recruiting CHD3, a subunit of the nucleosome rodeling and deacetylation (NuRD) complex, and SETDB1 (which specifically methylates histone H3 at 'Lys-9' (H3K9me)) to the promoter regions of KRAB target genes. Enhances transcriptional repression by coordinating the increase in H3K9me, the decrease in histone H3 'Lys-9 and 'Lys-14' acetylation (H3K9ac and H3K14ac, respectively) and the disposition of HP1 proteins to silence gene expression. Recruitment of SETDB1 induces heterochromatinization. May play a role as a coactivator for CEBPB and NR3C1 in the transcriptional activation of ORM1. Also corepressor for ERBB4. Inhibits E2F1 activity by stimulating E2F1-HDAC1 complex formation and inhibiting E2F1 acetylation. May serve as a partial backup to prevent E2F1-mediated apoptosis in the absence of RB1. Important regulator of CDKN1A,p21(CIP1). Has E3 SUMO-protein ligase activity toward itself via its PHD-type zinc finger. Also specifically sumoylates IRF7, thereby inhibiting its transactivation activity. Ubiquitinates p53,TP53 leading to its proteosomal degradation; the function is enhanced by MAGEC2 and MAGEA2, and possibly MAGEA3 and MAGEA6. Mediates the nuclear localization of KOX1, ZNF268 and ZNF300 transcription factors. In association with isoform 2 of ZFP90, is required for the transcriptional repressor activity of FOXP3 and the suppressive function of regulatory T-cells (Treg)

References

In vivo identification of sumoylation sites by a signature tag and cysteine-targeted affinity purification.Blomster H.A., Imanishi S.Y., Siimes J., Kastu J., Morrice N.A., Eriksson J.E., Sistonen L.J. Biol. Chem. 285:19324-19329(2010)Research Topic:Transcription

Note: This product is for in vitro research use only