

TRIM28 recombinant protein

Recombinant TRIM28 (624-811) protein

CATALOG #
AAA59685

HOST
E Coli

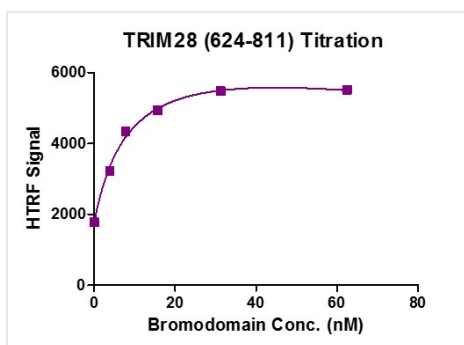
PRODUCT SYNONYMS

TRIM28; Recombinant TRIM28 (624-811) protein; KAP1; TF1B; RNF96; TIF1B; PPP1R157; TRIM28 recombinant protein

PRODUCT SPECIFICATIONS

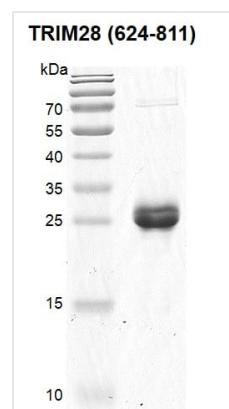
Host	E Coli
Purity/Purification	The recombinant protein is >87% pure by SDS-PAGE.
Form/Format	Recombinant TRIM28 (624-811) protein expressed in E Coli and supplied in 25mM Tris pH7.4, 150mM NaCl, 5% glycerol.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant TRIM28 (624-811) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

Recombinant TRIM28 (624-811) activity assay. 3.3 μ M histone peptide H4K5/8/12/16 (4ac) was incubated with TRIM28 (624-811) in reaction buffer including 50 mM HEPES-NaOH pH 7.0, 0.1% BSA for 1 hour at room temperature. Anti-DYKDDDDK antibody was used to detect reaction products.



SDS-PAGE

Recombinant TRIM28 (624-811) protein gel. TRIM28 (624-811) protein was run on an SDS-PAGE gel and stained with Coomassie Blue.

ADDITIONAL INFORMATION

Related Product Information for TRIM28 recombinant protein	Short Description: The peptide corresponding to amino acids 624-811 that contains the bromodomain sequences of TRIM28 (accession number NP_005753.1) was expressed in E Coli and contains an N-terminal His-tag and C-terminal DYKDDDDK tag with an observed molecular weight of 26.18 kDa. Tripartite motif-containing 28 (TRIM28) protein, also known as transcriptional intermediary factor 1b (TIF1b) and KAP1 (Krüppel-associated protein), is a member of the transcriptional intermediary factor 1 (TIF1) family that control transcription and chromatin remodeling through their interaction with transcription factors. The family includes enhances transcriptional repression by coordinating the increase in TRIM24 (TIF1a), TRIM28 (TIF1b) and TRIM33 (TIF1g) that share a characteristic domain structure comprised of multiple histone-binding domains, an N-terminal TRIM region (containing a RING domain, B box type 1 and type 2 domains, and a coiled-coil region), and a C-terminal bromodomain and PHD finger. Bromodomains function as 'readers' of epigenetic histone marks and regulate chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TRIM28 has been shown to function as a nuclear corepressor for KRAB domain-containing zinc finger proteins (KRAB-ZFPs). It also mediates gene silencing by recruiting CHD3, a subunit of the nucleosome remodeling and deacetylation (NuRD) complex, and SETDB1 (which specifically methylates histone H3 at lysine 9) to the promoter regions of KRAB target genes. TRIM28 enhances transcriptional repression by coordinating the increase in H3K9 methylation, the decrease in H3K9 and H3K14 acetylation, respectively, and the disposition of HP1 proteins to silence gene expression. It also acts as a corepressor for ErbB-4. TRIM28 inhibits E2F1 activity by stimulating E2F1-HDAC1 complex formation and inhibiting E2F1 acetylation and may serve as a partial backup to prevent E2F1-mediated apoptosis in the absence of pRb. TRIM28 has E3 SUMO-protein ligase activity toward itself via its PHD-type zinc finger. TRIM28 also specifically SUMOylates IRF7, inhibiting its transactivation activity, and ubiquitinates p53 leading to its proteosomal degradation. Recombinant TRIM28 (624-811) can be used in binding assays and inhibitor screening. Background: Tripartite motif-containing 28 (TRIM28) protein, also known as transcriptional intermediary factor 1b (TIF1b) and KAP1 (Krüppel-associated protein), is a member of the transcriptional intermediary factor 1 (TIF1) family that control transcription and chromatin remodeling through their interaction with transcription factors. The family includes enhances transcriptional repression by coordinating the increase in TRIM24 (TIF1a), TRIM28 (TIF1b) and TRIM33 (TIF1g) that share a characteristic domain structure comprised of multiple histone-binding domains, an N-terminal TRIM region (containing a RING domain, B box type 1 and type 2 domains, and a coiled-coil region), and a C-terminal bromodomain and PHD finger. Bromodomains function as 'readers' of epigenetic histone marks and regulate chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TRIM28 has been shown to function as a nuclear corepressor for KRAB domain-containing zinc finger proteins (KRAB-ZFPs). It also mediates gene silencing by recruiting CHD3, a subunit of the nucleosome remodeling and deacetylation (NuRD) complex, and SETDB1 (which specifically methylates histone H3 at lysine 9) to the promoter regions of KRAB target genes. TRIM28 enhances transcriptional repression by coordinating the increase in H3K9 methylation, the decrease in H3K9 and H3K14 acetylation, respectively, and the disposition of HP1 proteins to silence gene expression. It also acts as a corepressor for ErbB-4. TRIM28 inhibits E2F1 activity by stimulating E2F1-HDAC1 complex formation and inhibiting E2F1 acetylation and may serve as a partial backup to prevent E2F1-mediated apoptosis in the absence of pRb. TRIM28 has E3 SUMO-protein ligase activity toward itself via its PHD-type zinc finger. TRIM28 also specifically SUMOylates IRF7, inhibiting its transactivation activity, and ubiquitinates p53 leading to its proteosomal degradation.
Product Categories/Family for TRIM28 recombinant protein	Recombinant Proteins; Bromodomain

NCBI AND UNIPROT INFORMATION

NCBI GI #	14971416
NCBI GeneID	10155
NCBI Accession #	NP_005753.1
NCBI GenBank Nucleotide #	NM_005762
Molecular Weight	79,474 Da
NCBI Official Full Name	Homo sapiens tripartite motif containing 28 (TRIM28), mRNA
NCBI Official Synonym Full Names	tripartite motif containing 28
NCBI Official Symbol	TRIM28
NCBI Official Synonym Symbols	KAP1; TF1B; RNF96; TIF1B; PPP1R157

NCBI Protein Information

transcription intermediary factor 1-beta; E3 SUMO-protein ligase TRIM28; KAP-1; KRAB [Kruppel-associated box domain]-associated protein 1; KRAB-associated protein 1; KRAB-interacting protein 1; KRIP-1; RING finger protein 96; TIF1-beta; nuclear corepresso

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/trim28-recombinant-protein-e-coli/59685>