TRIM28 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRIM28, Polyclonal Antibody
Full Product Name	TRIM28, NT (TRIM28, KAP1, RNF96, TIF1B, Transcription intermediary factor 1-beta, E3 SUMO-protein ligase TRIM28, KRAB-associated protein 1, KRAB-interacting protein 1, Nuclear corepressor KAP-1, RING finger protein 96, Tripartite motif-containing protein
Product Gene Name	anti-TRIM28 antibody
Product Synonym Names	TRIM28; KAP1; RNF96; TIF1B; Transcription intermediary factor 1-beta; E3 SUMO-protein ligase TRIM28; KRAB-associated protein 1; KRAB-interacting protein 1; Nuclear corepressor KAP-1; RING finger protein 96; Tripartite motif-containing protein 28
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	79,474 Da
OMIM	601742
3D Structure	ModBase 3D Structure for Q13263
Immunogen	TRIM28 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 185-215 amino acids from the N-terminal region of human TRIM28.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-TRIM28 antibody	Antibodies; Transcription Factors; TRIM (Tripartite Motif)
Applications Tested/Suitable for anti-TRIM28 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-TRIM28 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-TRIM28 antibody	The protein encoded by this gene mediates transcriptional control by interaction with the Kruppel-associated box repression domain found in many transcription factors. The protein localizes to the nucleus and is thought to associate with specific chromatin regions. The protein is a member of the tripartite motif family. This tripartite motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region.

Product References and Citations for anti-TRIM28 antibody	Lai, I.L., et al. J. Biol. Chem. 285(10):7187-7196(2010). Yokoe, T., et al. Ann. Surg. Oncol. 17(3):821-828(2010). Noon, A.T., et al. Nat. Cell Biol. 12(2):177-184(2010). Li, X., et al. Sci Signal 3 (119), RA32 (2010): Groner, A.C., et al. PLoS Genet. 6 (3), E1000869 (2010).
Other Notes	Small volumes of anti-TRIM28 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRIM28 purchase	MBS6358261 is an antibody targeting TRIM28. Also known as TRIM28, NT (TRIM28, KAP1, RNF96, TIF1B, Transcription intermediary factor 1-beta, E3 SUMO-protein ligase TRIM28, KRAB-associated protein 1, KRAB-interacting protein 1, Nuclear corepressor KAP-1, RING finger protein 96, Tripartite motif-containing protein. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRIM28. It may not necessarily be applicable to this product.

NCBI GI #	14971416
NCBI GeneID	10155
NCBI Accession #	NP_005753.1
UniProt Primary Accession #	Q13263
UniProt Secondary Accession #	O00677; Q7Z632; Q93040; Q96IM1
UniProt Related Accession #	Q13263
GenBank Nucleotide #	NM_005762
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
UniProt Protein Name	Transcription intermediary factor 1-beta
UniProt Synonym Protein Names	E3 SUMO-protein ligase TRIM28 (EC:6.3.2.-); KRAB-associated protein 1; KAP-1; KRAB-interacting protein 1; KRIP-1; Nuclear corepressor KAP-1; RING finger protein 96; Tripartite motif-containing protein 28
Protein Family	Transcription intermediary factor
UniProt Gene Name	TRIM28
UniProt Synonym Gene Names	KAP1; RNF96; TIF1B; TIF1-beta; KAP-1; KRIP-1
UniProt Entry Name	TIF1B_HUMAN
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

UniProt Comments for TRIM28	TIF1B: an atypical protein kinase that functions as a transcriptional coactivator. Mediates transcriptional regulation by interaction with the Kruppel-associated box (KRAB) repression domain found in many transcription factors. Binds to the negative regulatory domain of c-Myb and negatively regulates the c-Myb-dependent trans-activation. Localizes to the nucleus and is thought to associate with specific chromatin regions. Phosphorylated in an ATM-dependent manner following double-strand breaks. Its phosphorylation in response to DNA damage leads to chromatin relaxation. A member of the tripartite motif family. The tripartite motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. Protein type: EC 6.3.2.-; Ligase; Protein kinase, atypical; Ubiquitin conjugating system; Kinase, protein; Ubiquitin ligase; Nuclear receptor co-regulator; Transcription, coactivator/corepressor; ATYPICAL group; TIF1 family Chromosomal Location of Human Ortholog: 19q13.4 Cellular Component: nucleoplasm; nuclear heterochromatin; nucleus Molecular Function: protein binding; DNA binding; zinc ion binding; sequence-specific DNA binding; ubiquitin protein ligase binding; transcription coactivator activity; ubiquitin-protein ligase activity; transcription factor activity; transcription corepressor activity; ligase activity; protein kinase activity Biological Process: transcription initiation from RNA polymerase II promoter; convergent extension involved in axis elongation; positive regulation of DNA repair; protein amino acid autophosphorylation; positive regulation of transcription, DNA-dependent; protein ubiquitination; negative regulation of transcription from RNA polymerase II promoter; DNA repair; protein oligomerization; protein sumoylation; positive regulation of transcription factor import into nucleus; innate immune response; epithelial to mesenchymal transition; gene expression; negative regulation of transcription, DNA-dependent; DNA methylation during embryonic development; embryo implantation
Research Articles on TRIM28	**1.** MAGE proteins bind to KAP1, a gene repressor and ubiquitin E3 ligase which also binds KRAB domain containing zinc finger transcription factors (KZNFs), and MAGE expression may affect KZNF mediated gene regulation.
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