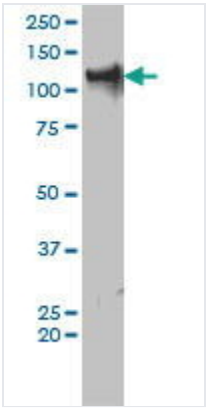
TRIM24 Antibody – Mouse Monoclonal

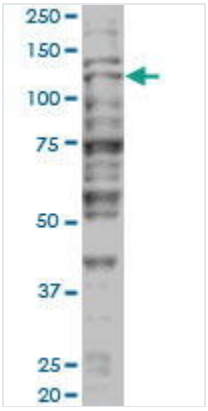
PRODUCT OVERVIEW

Product Name	TRIM24, Monoclonal Antibody
Full Product Name	TRIM24 (Transcription Intermediary Factor 1-alpha, TIF1-alpha, E3 Ubiquitin-protein Ligase TRIM24, RING Finger Protein 82, Tripartite Motif-containin
Product Gene Name	anti-TRIM24 antibody
Clonality	Monoclonal
Isotype	IgG3,k
Clone Number	2F2
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TRIM24.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	Calculated Molecular Weight: 117kDa Observed Molecular Weight: 116kDa
OMIM	188550
3D Structure	ModBase 3D Structure for O15164
Immunogen	Partial recombinant corresponding to aa432-569 from TRIM24 (AAH28689) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PQMPKQNPVVEQNSQPPSGLSSNQLSKFPTQISLAQLRLQHMQQQVMAQRQQVQRRPAPVGLPNPRMQGPIQQPSISHQQPPPRLINFQNHSPKPNG
Conjugate	AP
Product Categories/Family for anti-TRIM24 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TRIM24 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-TRIM24 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TRIM24 antibody	MBS6134315 is an antibody targeting TRIM24. Also known as TRIM24 (Transcription Intermediary Factor 1-alpha, TIF1-alpha, E3 Ubiquitin-protein Lig containing Protein 24, RNF82, TIF1, TIF1A) (AP). Reactive in Human. Host: Mouse.

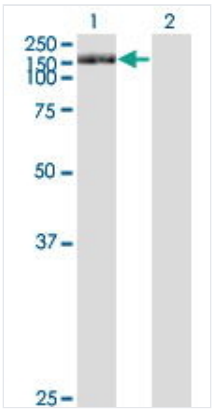
Product References and Citations for anti-TRIM24 antibody	1. TRIM24 mediates ligand-dependent activation of androgen receptor and is repressed by a bromodomain-containing protein, BRD7, in prostate cance Miyajima N, Tanaka J, Imamura M, Hatakeyama S.Biochim Biophys Acta. 2009 Dec;1793(12):1828-36. Epub 2009 Nov 10.
Other Notes	Small volumes of anti-TRIM24 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



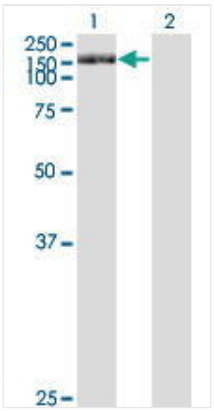
Western Blot (WB) of anti-TRIM24 antibody
TRIM24 monoclonal antibody Western Blot analysis of TRIM24 expression in IMR-32.



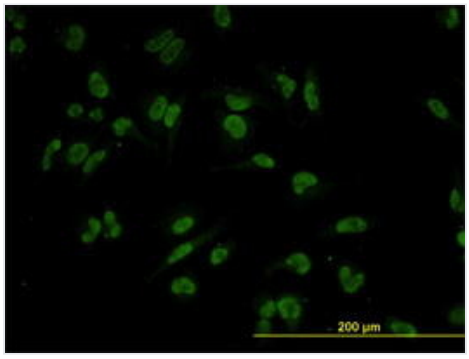
Western Blot (WB) of anti-TRIM24 antibody
TRIM24 monoclonal antibody Western Blot analysis of TRIM24 expression in Hela NE.



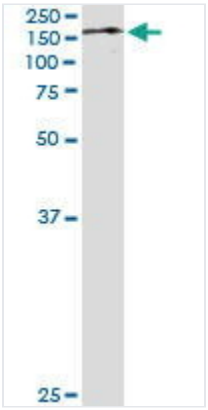
Western Blot (WB) of anti-TRIM24 antibody
Western Blot analysis of TRIM24 expression in transfected 293T cell line by TRIM24 monoclonal antibody Lane 1: TRIM24 transfected lysate (116.8kD). Lane 2: Non-transfected lysate.



Immunohistochemistry (IHC) of anti-TRIM24 antibody
Immunoperoxidase of monoclonal antibody to TRIM24 on formalin-fixed paraffin-embedded human testis. [antibody concentration 6ug/ml].



Immunofluorescence (IF) of anti-TRIM24 antibody
Immunofluorescence of monoclonal antibody to TRIM24 on HeLa cell. [antibody concentration 10ug/ml.



Immunoprecipitation (IP) of anti-TRIM24 antibody
Immunoprecipitation of TRIM24 transfected lysate using TRIM24 monoclonal antibody and Protein A Magnetic Bead and immunoblotted with TRIM24 rabbit polyclonal antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRIM24. It may not necessarily be applicable to this product.

NCBI GI #	21040396
NCBI GeneID	8805
NCBI Accession #	BC028689
NCBI Related Accession #	AAH28689
UniProt Primary Accession #	O15164
UniProt Secondary Accession #	O95854; A4D1R7; A4D1R8
UniProt Related Accession #	O15164
NCBI Official Full Name	Homo sapiens tripartite motif-containing 24, mRNA
NCBI Official Synonym Full Names	tripartite motif containing 24
NCBI Official Symbol	TRIM24
NCBI Official Synonym Symbols	PTC6; TF1A; TIF1; RNF82; TIF1A; hTIF1; TIF1ALPHA
UniProt Protein Name	Transcription intermediary factor 1-alpha
UniProt Synonym Protein Names	E3 ubiquitin-protein ligase TRIM24; RING finger protein 82; Tripartite motif-containing protein 24
Protein Family	Transcription intermediary factor
UniProt Gene Name	TRIM24
UniProt Synonym Gene Names	RNF82; TIF1; TIF1A; TIF1-alpha
UniProt Entry Name	TIF1A_HUMAN
NCBI Protein Information	transcription intermediary factor 1-alpha
NCBI Summary for TRIM24	The protein encoded by this gene mediates transcriptional control by interaction with the activation function 2 (AF2) region of several nuclear receptors, including the estrogen, retinoic acid, and vitamin D3 receptors. The protein localizes to nuclear bodies and is thought to associate with chromatin and heterochromatin-associated factors. The protein is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains - a RING, a B-box type 1 and a B-box type 2 - and a coiled-coil region. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for TRIM24	TRIM24: an atypical protein kinase that functions as a transcriptional coactivator. Originally identified as a mammalian protein that enhances the AF-2 activity of the retinoid X receptor (RXR) in a yeast genetic screen. Binds to nuclear receptors in an agonist and AF2-activating domain (AF2-AD) dependent manner. Binding to the agonist-nuclear receptor complex induces its own hyperphosphorylation as well as the phosphorylation of TFIIEa, TAFII28, and TAFII55. Belongs to a family of nuclear proteins that includes TIF1b and TIF1g. TIF1 proteins are characterized by an N-terminal region that contains a RING finger-B boxes-coiled coil (RBCC) motif, a poorly conserved central region, a C-terminal region that contains a PHD finger, and a bromodomain. Interacts with the heterochromatin-associated proteins HP1a, MOD1 (HP1b), and MOD2 (HP1g) and with the transcriptional repression domain KRAB, which is present in many Kruppel-type (C2H2) zinc finger proteins. May act as a repressor through the formation of transcriptionally inactive heterochromatin. Two splice variant isoforms have been described. Protein type: Tumor suppressor; EC 6.3.2.-; Nuclear receptor co-regulator; Transcription, coactivator/corepressor; Protein kinase, atypical; Kinase, protein; Ubiquitin conjugating system; ATYPICAL group; TIF1 family Chromosomal Location of Human Ortholog: 7q32-q34 Cellular Component: nucleoplasm; perichromatin fibrils; cytosol; nucleus Molecular Function: ligand-dependent nuclear receptor binding; protein binding; zinc ion binding; p53 binding; sequence-specific DNA binding; transcription coactivator activity; ubiquitin-protein ligase activity; estrogen response element binding; chromatin binding; methylated histone residue binding; receptor binding; ligase activity; protein kinase activity Biological Process: calcium ion homeostasis; transcription from RNA polymerase II promoter; regulation of apoptosis; negative regulation of cell proliferation; response to peptide hormone stimulus; positive regulation of transcription, DNA-dependent; protein amino acid autophosphorylation; regulation of protein stability; protein ubiquitination; protein catabolic process; negative regulation of transcription, DNA-dependent Disease: Thyroid Carcinoma, Papillary
Research Articles on TRIM24	**1.** Study showed that TRIM24 was upregulated during gastric carcinogenesis and demonstrated that TRIM24 was a functional target gene of miR-511, and miR-511 inactivated PI3K/AKT and Wnt/beta-catenin pathways by suppressing TRIM24.
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