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 MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TRIM24.
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 amo made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to rem
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	MaxLight490
Product Categories/Family for anti-TRIM24 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TRIM24 antibody	FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-TRIM24 antibody	IF: 10ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-TRIM24 antibody	MBS6203854 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) (MaxLight 490). 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.

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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