

Rabbit anti-Human, Mouse TRIM24 Polyclonal Antibody | anti-TRIM24 antibody

TRIM24 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320957	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TRIM24; Polyclonal Antibody; TRIM24 Antibody; E3 ubiquitin protein ligase TRIM24; E3 ubiquitin-protein ligase Trim24; hTIF1; PTC6; RING finger protein 82; RNF82; TF1A; TIF1; TIF1-alpha; TIF1A; TIF1A_HUMAN; TIF1ALPHA; Transcription intermediary factor 1-alpha; Transcriptional intermediary factor 1 alpha; Transcriptional intermediary factor 1; Trim24; Tripartite motif containing 24; Tripartite motif-containing protein 24; anti-TRIM24 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	TRIM24 antibody detects endogenous levels of total TRIM24
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1016
Applicable Applications for anti-TRIM24 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TRIM24
Subcellular Location	Nucleus. Cytoplasm. Colocalizes with sites of active transcription. Detected both in nucleus and cytoplasm in some breast cancer samples. Predominantly nuclear.
Tissue Specificity	Up-regulated in some cases of breast cancer.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis on Jurkat and K562 cell lysate using TRIM24 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA320957 staining COLO205 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from various samples, using TRIM24 Antibody. Lane 1: 293 treated with blocking peptide. Lane 2: 293; Lane 3: hela;



IHC (Immunohistochemistry)

AAA320957 at 1/100 staining human lymph node tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-TRIM24 antibody

Description: 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 TFIIIEa, TAFII28, and TAFII55.

Function: Transcriptional coactivator that interacts with numerous nuclear receptors and coactivators and modulates the transcription of target genes. Interacts with chromatin depending on histone H3 modifications, having the highest affinity for histone H3 that is both unmodified at 'Lys-4' (H3K4me0) and acetylated at 'Lys-23' (H3K23ac). Has E3 protein-ubiquitin ligase activity. Promotes ubiquitination and proteasomal degradation of p53/TP53. Plays a role in the regulation of cell proliferation and apoptosis, at least in part via its effects on p53/TP53 levels. Up-regulates ligand-dependent transcription activation by AR, GCR/NR3C1, thyroid hormone receptor (TR) and ESR1. Modulates transcription activation by retinoic acid (RA) receptors, including RARA. Plays a role in regulating retinoic acid-dependent proliferation of hepatocytes (By similarity).

Subunit Structure: Interacts with CARM1, NCOA2/GRIP1, PML, KAT5/TIP60, BRD7, CBX1, CBX3 and CBX5. Part of a coactivator complex containing TRIM24, NCOA2 and CARM1 (By similarity). Interacts with NR3C2/MCR. Interacts with the ligand-binding domain of estrogen receptors (in vitro). Interaction with DNA-bound estrogen receptors requires the presence of estradiol. Interacts with AR and p53/TP53. Interacts (via bromo domain) with histone H3 (via N-terminus), provided that it is not methylated at 'Lys-4' (H3K4me0). Does not interact with histone H3 that is methylated at 'Lys-4' (H3K4me1, H3K4me2 or H3K4me3). Interacts (via bromo domain) with histone H3 (via N-terminus) that is acetylated at 'Lys-23' (H3K23ac). Has the highest affinity for histone H3 that is both unmodified at 'Lys-4' (H3K4me0) and acetylated at 'Lys-23' (H3K23ac). Has very low affinity for histone H3 that is methylated at 'Lys-9' (H3K9me), or acetylated at both 'Lys-9' (H3K9ac) and 'Lys-14' (H3K14ac), or acetylated at 'Lys-27' (H3K27ac) (in vitro).

Post-translational Modifications: Sumoylated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47419909
NCBI GeneID	8805
NCBI Accession #	NP_003843.3
NCBI GenBank Nucleotide #	NM_003852.3
UniProt Accession #	O15164; O95854; A4D1R7; A4D1R8

Molecular Weight	Observed: 117 kDa Predicted: 117 kDa
NCBI Official Full Name	transcription intermediary factor 1-alpha isoform b
NCBI Official Synonym Full Names	tripartite motif containing 24
NCBI Official Symbol	TRIM24
NCBI Official Synonym Symbols	PTC6; TF1A; TIF1; RNF82; TIF1A; hTIF1; TIF1ALPHA
NCBI Protein Information	transcription intermediary factor 1-alpha
UniProt Protein Name	Transcription intermediary factor 1-alpha
UniProt Gene Name	TRIM24
UniProt Synonym Gene Names	RNF82; TIF1; TIF1A; TIF1-alpha

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/polyclonal/trim24-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320957>