

TIF1A / TRIM24 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2310a

Specification

TIF1A / TRIM24 Antibody (C-Term) - Product Information

Application	IHC
Primary Accession	O15164
Other Accession	NP_056989.2 , NP_003843.3 , 8805
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	116831

TIF1A / TRIM24 Antibody (C-Term) - Additional Information

Gene ID 8805

Other Names

Transcription intermediary factor 1-alpha, TIF1-alpha, 6.3.2.-, E3 ubiquitin-protein ligase TRIM24, RING finger protein 82, Tripartite motif-containing protein 24, TRIM24, RNF82, TIF1, TIF1A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TIF1A / TRIM24 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

TIF1A / TRIM24 Antibody (C-Term) - Protein Information

Name TRIM24

Synonyms RNF82, TIF1, TIF1A

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. During the DNA damage response, participates in an autoregulatory feedback loop with TP53. Early in

response to DNA damage, ATM kinase phosphorylates TRIM24 leading to its ubiquitination and degradation. After sufficient DNA repair has occurred, TP53 activates TRIM24 transcription, ultimately leading to TRIM24-mediated TP53 ubiquitination and degradation (PubMed:24820418). 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). Participates also in innate immunity by mediating the specific 'Lys-63'-linked ubiquitination of TRAF3 leading to activation of downstream signal transduction of the type I IFN pathway (PubMed:32324863). Additionally, negatively regulates NLRP3/CASP1/IL-1beta-mediated pyroptosis and cell migration probably by ubiquitinating NLRP3 (PubMed:33724611).

Cellular Location

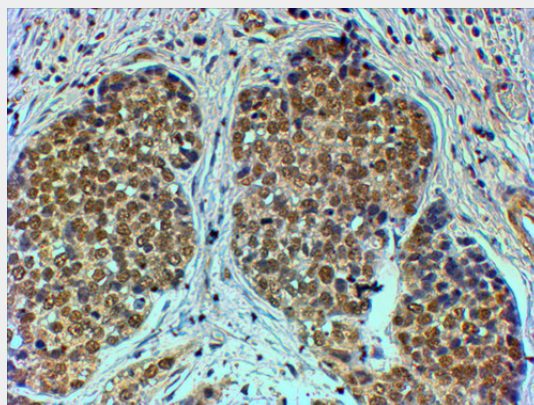
Nucleus. Cytoplasm. Mitochondrion. Note=Colocalizes with sites of active transcription. Predominantly nuclear. Translocated from nucleus to mitochondria to mediate antiviral immunity (PubMed:32324863). Localizes to sites of DNA damage (PubMed:25593309).

TIF1A / TRIM24 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TIF1A / TRIM24 Antibody (C-Term) - Images



AF2310a (4 µg/ml) staining of paraffin embedded Human Breast cancer. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

TIF1A / TRIM24 Antibody (C-Term) - Background

This antibody is expected to recognise both reported isoforms, as represented by NP_003843.3 and NP_056989.2.

TIF1A / TRIM24 Antibody (C-Term) - References

Differential interaction of nuclear receptors with the putative human transcriptional coactivator hTIF1. Thenot S, Henriquet C, Rochefort H, Cavailles V. J Biol Chem. 1997 May 2;272(18):12062-8. PMID: 9115274