TRIM24 Antibody
Catalog # ASC11666

Specification

TRIM24 Antibody - Product Information

Application	**IF**
Primary Accession	**O15164**
Other Accession	**NP_056989, 8805**
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 112, 116**
	Observed: 108, 1 of 2 isoforms KDa
Application Notes	**TRIM24 antibody can be used for detection of TRIM24 by Western blot at 0.5 - 1 µg/mL.**

Immunofluorescence of Neurturin in human brain tissue with Neurturin antibody at 5 µg/ml.

TRIM24 Antibody - Additional Information

Gene ID   **8805**
Target/Specificity
TRIM24 antibody was raised against a 19 amino acid peptide near the center of human TRIM24.

The immunogen is located within amino acids 530 - 580 of TRIM24.
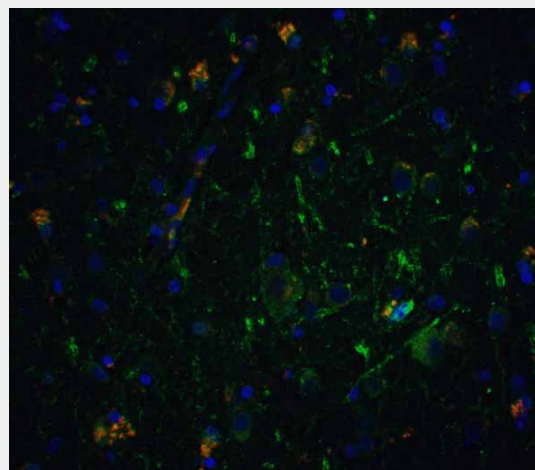
Reconstitution & Storage
TRIM24 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
TRIM24 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TRIM24 Antibody - Protein Information

Name TRIM24

TRIM24 Antibody - Background

TRIM24 Antibody: TRIM24 (TIF1), a member of the tripartite motif (TRIM) family, plays a role in the regulation of cell proliferation and apoptosis. TRIM24 localizes to nuclear bodies and is thought to associate with chromatin and heterochromatin-associated factors. The TRIM motif includes three zinc-binding domains (RING, B-box type 1 and B-box type 2) and a coiled-coil region. TIF1 mediates transcriptional events by interactions with the AF2 region of several nuclear receptors, such as the estrogen, retinoic acid and vitamin D3 receptors. Defects in TRIM24 are a cause of thyroid papillary carcinoma (TPC).

TRIM24 Antibody - References

Fraser RA, Heard DJ, Adam S, et al. The putative cofactor TIF1 is a protein kinase that is hyperphosphorylated upon interaction with liganded nuclear receptors. J. Biol. Chem. 1998; 273:16199-204.
Tisserand J, Khetchoumian K, Thibault C, et al. Tripartite motif 24 (Trim24/Tif1a) tumor suppressor protein is a novel negative

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. 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).

Cellular Location
Nucleus. Cytoplasm. Note=Colocalizes with sites of active transcription. Detected both in nucleus and cytoplasm in some breast cancer samples. Predominantly nuclear

regulator of interferon (IFN)/signal transducers and activators of transcription (STAT) signaling pathway acting through retinoic acid receptor a (Rara) inhibition. J. Biol. Chem. 2011; 286:33369-79.
Herquel B, Ouararhni K, Khetchoumian K, et al. Transcription cofactors TRIM24, TRIM28, and TRIM33 associate to form regulatory complexes that suppress murine hepatocellular carcinoma. Proc. Natl. Acad. Sci. USA 2011; 108:8212-7.
Klugbauer S and Rabes HM. The transcription co-activator HTIF1 and a related protein are fused to the RET receptor tyrosine kinase in childhood papillary thyroid carcinomas. Oncogene 1999;18:4388-93.

TRIM24 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture