



## Rabbit Anti-TRIM24 antibody

SL3580R

|                               |   |
|-------------------------------|---|
| <b>Product Name:</b>          | TRIM24  |
| <b>Chinese Name:</b>          | 转录中介因子Tif1 $\alpha$ 抗体  |
| <b>Alias:</b>                 | TIF1A; TIF1 Alpha; E3 ubiquitin-protein ligase Trim24; hTIF1; PTC6; RING finger protein 82; RNF82; TF1A; TIF1; TIF1-alpha; 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; TIF1 $\alpha$ . |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,   |
| <b>Applications:</b>          | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 117kDa  |
| <b>Cellular localization:</b> | The nucleuscytoplasmic  |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human TIF1 Alpha:901-1050/1050  |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | TIF1 alpha 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.

**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:**

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).

**Subcellular Location:**

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

**Post-translational modifications:**

Phosphorylated upon DNA damage, probably by ATM or ATR. Sumoylated (By similarity).

**DISEASE:**

Defects in TRIM24 are a cause of thyroid papillary carcinoma (TPC) [MIM:188550]. TPC is a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. Note=A chromosomal aberration involving TRIM24/TIF1 is found in thyroid papillary

carcinomas. Translocation t(7;10)(q32;q11) with RET. The translocation generates the TRIM24/RET (PTC6) oncogene.

**Similarity:**

Contains 2 B box-type zinc fingers.

Contains 1 bromo domain.

Contains 1 PHD-type zinc finger.

Contains 1 RING-type zinc finger.

**SWISS:**

O15164

**Gene ID:**

8805

**Database links:**

[Entrez Gene: 8805](#)Human

[Entrez Gene: 21848](#)Mouse

[Entrez Gene: 500084](#)Rat

[Omim: 603406](#)Human

[SwissProt: O15164](#)Human

[SwissProt: Q64127](#)Mouse

[Unigene: 490287](#)Human

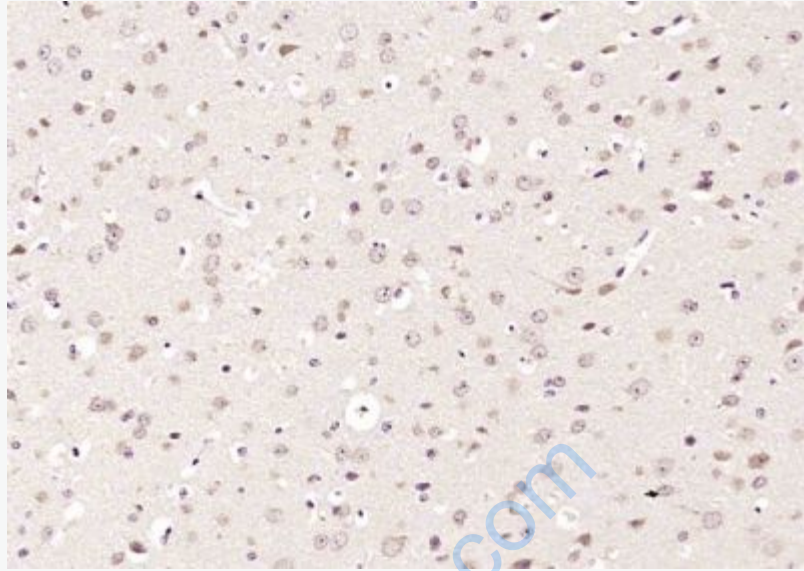
[Unigene: 41063](#)Mouse

[Unigene: 202658](#)Rat

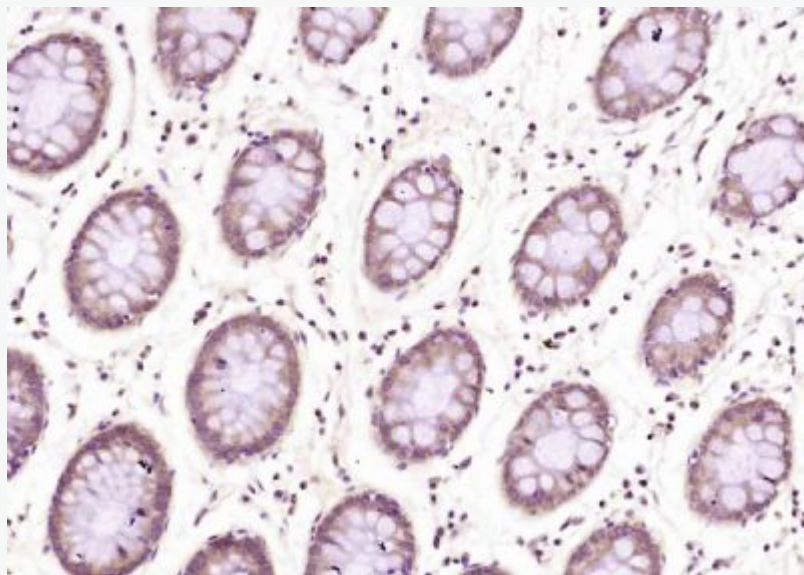
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Tif1 $\alpha$ 是一种转录中介因子,在诸多转录调控复合体中起桥梁作用。



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TRIM24) Polyclonal Antibody, Unconjugated (SL3580R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TRIM24) Polyclonal Antibody, Unconjugated (SL3580R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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