SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-TRIM24/HRP Conjugated antibody

Catalog Number: SL3580R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-TRIM24/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human TIF1 Alpha
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 ELISA=1:100-1000 IHC-P=1:50-200 IHC-F=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Dog,Pig,Horse,Rabbit)
Background:	background: 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

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	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. **Database links:**

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	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. Tif1α is a transcriptional intermediary factor that acts as a bridge in many transcriptional regulatory complexes.

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