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TRIM24 Recombinant Mouse mAb

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Catalog # AP94581

Product Information

Application	WB, IHC-P, IHC-F, IF
Host	Rabbit
Clonality	Recombinant
Calculated MW	117 KDa
Physical State	Liquid
Isotype	IgG1/lambda
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm. Note=Colocalizes with sites of active transcription. Detected both in nucleus and cytoplasm in some breast cancer samples. Predominantly nuclear.
SIMILARITY	Contains 2 B box-type zinc fingers.Contains 1 bromo domain.Contains 1 PHD-type zinc finger.Contains 1 RING-type zinc finger.
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).
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene 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. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Dilution	WB=1:2000-1:10000,IHC-P=1:100-500,IHC-F=,IF=0
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Background

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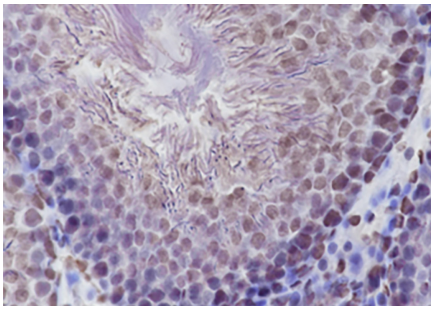
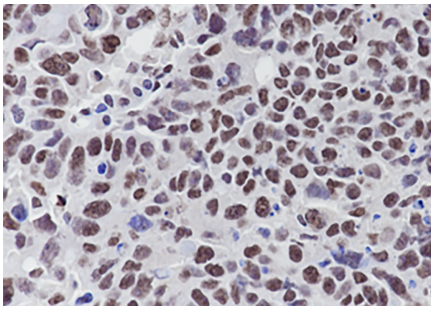
Images



Tissue: Rat testis Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary Ab dilution: 1:100 Primary Ab incubation condition: 1 hour at room temperature Secondary Ab:SP Kit(Mouse)(sp-0024) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for AP94581



Tissue: Human lung squamous carcinoma Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary Ab dilution: 1:100 Primary Ab incubation condition: 1 hour at room temperature Secondary Ab: SP Kit(Mouse)(sp-0024) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for AP94581