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MEN1 Antibody (T594)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7415b

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	O00255
Other Accession	Q9WVR8, O88559, Q0P5I0, NP_000235
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB0543
Calculated MW	67497
Antigen Region	584-615

Additional Information

Gene ID	4221
Other Names	Menin, MEN1, SCG2
Target/Specificity	This MEN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 584-615 amino acids from human MEN1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MEN1 Antibody (T594) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MEN1
Synonyms	SCG2

Function	Essential component of a MLL/SET1 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3 (H3K4). Functions as a transcriptional regulator. Binds to the TERT promoter and represses telomerase expression. Plays a role in TGFB1-mediated inhibition of cell-proliferation, possibly regulating SMAD3 transcriptional activity. Represses JUND-mediated transcriptional activation on AP1 sites, as well as that mediated by NFKB subunit RELA. Positively regulates HOXC8 and HOXC6 gene expression. May be involved in normal hematopoiesis through the activation of HOXA9 expression (By similarity). May be involved in DNA repair.
Cellular Location	Nucleus. Note=Concentrated in nuclear body-like structures. Relocates to the nuclear matrix upon gamma irradiation
Tissue Location	Ubiquitous.

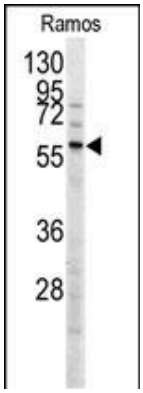
Background

Menin (MEN1) is a putative tumor suppressor associated with a syndrome known as multiple endocrine neoplasia type 1. In vitro studies have shown menin is localized to the nucleus, possesses two functional nuclear localization signals, and inhibits transcriptional activation by JunD, however, the function of this protein is not known.

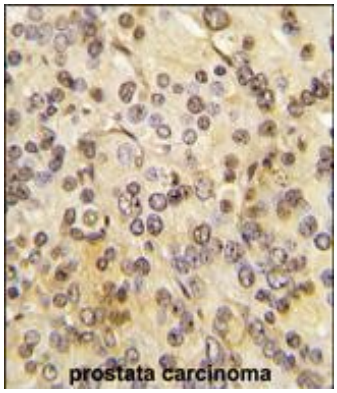
References

Hashimoto,M., Int. J. Oncol. 33 (2), 333-340 (2008)
Vidal,A., J Eur Acad Dermatol Venereol 22 (7), 835-838 (2008)
Pieterman,C.R., Clin. Endocrinol. (Oxf) (2008)

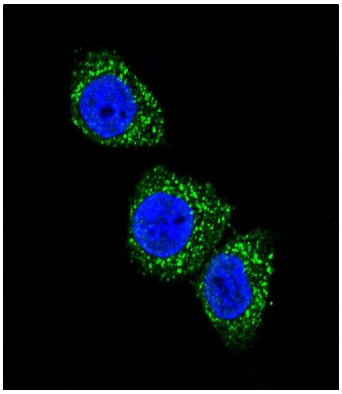
Images



Western blot analysis of anti-MEN1 Antibody (T594) (Cat.#AP7415b) in Ramos cell line lysates (35ug/lane). MEN1(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with MEN1 Antibody (T594) (Cat.#AP7415b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of MEN1 Antibody (T594)(Cat#AP7415b) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).