

Menin Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10614**Specification**

Menin Antibody - Product Information

Application	WB
Primary Accession	O00255
Other Accession	NP_000235.2
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	67497

Menin Antibody - Additional Information**Gene ID 4221**

Application & Usage	Western blotting (1:500 - 1:2000). However, the optimal concentrations should be determined individually. 293T cell lysate can be used as a positive control. The antibody recognizes the Menin of human, mouse, and rat origins. Reactivity to other species has not been tested.
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Other Names

MEAI, Multiple Endocrine Adenomatosis 1; ZES, Zollinger-Ellison Syndrome; SCG2, Suppressor Candidate Gene 2

Target/Specificity

Menin

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µl affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

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

Menin Antibody - 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.

Menin 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 Cytometry](#)
- [Cell Culture](#)

Menin Antibody - Images

Menin Antibody - Background

Menin (multiple endocrine neoplasia I, MEN1, MEAI, SCG2) is a nuclear tumor suppressor that is mutated in patients with multiple endocrine neoplasia type I (MEN1). Menin can activate the transcription of differentiation-regulating genes by covalent histone modification. In osteoblasts, the interaction of menin and the TGFβ/Smad3 pathway negatively regulates BMP2/Smad1/5- and Runx2-dependent transcription activities leading to inhibition of late-stage differentiation. Menin regulates the expression of IGFBP-2 by influencing the IGFBP-2 promoter. Ectopic overexpression of menin via adenoviruses induces apoptosis in murine embryonic fibroblasts in a Bax/Bak-dependent manner. Two mRNA exist and two variants of the shorter mRNA have alternative splicing that

changes the CDS. Five variants where alternative splicing takes place in the 5' UTR have been identified.