

Anti-Menin Picoband Antibody
Catalog # ABO11954**Specification**

Anti-Menin Picoband Antibody - Product Information

Application	WB
Primary Accession	O00255
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Menin(MEN1) detection. Tested with WB in Human;Mouse.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Menin Picoband Antibody - Additional Information

Gene ID 4221

Other Names

Menin, MEN1, SCG2

Calculated MW

68023 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse

Subcellular Localization

Nucleus . Concentrated in nuclear body-like structures. Relocates to the nuclear matrix upon gamma irradiation.

Tissue Specificity

Ubiquitous.

Protein Name

Menin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human Menin recombinant protein (Position: P301-L615). Human Menin shares 93% and 94% amino acid (aa) sequence identity with mouse and rat Menin, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Menin Picoband 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 TGFβ1-mediated inhibition of cell-proliferation, possibly regulating SMAD3 transcriptional activity. Represses JUND-mediated transcriptional activation on AP1 sites, as well as that mediated by NFκB 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

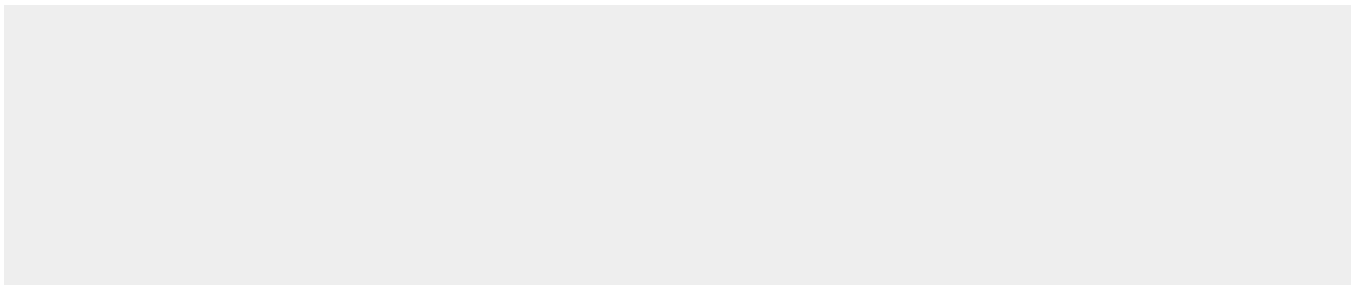
Ubiquitous.

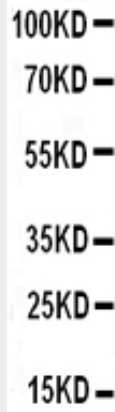
Anti-Menin Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

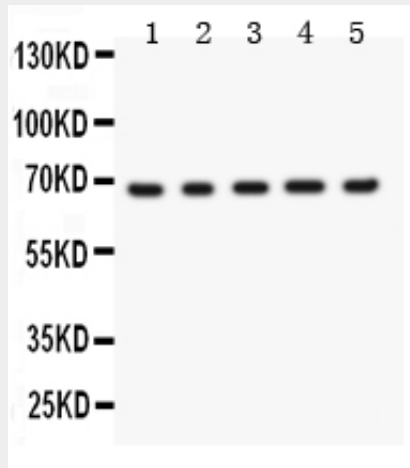
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Menin Picoband Antibody - Images





Anti- Menin Picoband antibody, ABO11954, Western blotting All lanes: Anti Menin (ABO11954) at 0.5ug/ml WB: Recombinant Human Menin Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD



Anti- Menin Picoband antibody, ABO11954, Western blotting All lanes: Anti Menin (ABO11954) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: 293T Whole Cell Lysate at 40ug Lane 3: SMMC Whole Cell Lysate at 40ug Lane 4: HEPA Whole Cell Lysate at 40ug Lane 5: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 68KD Observed bind size: 68KD

Anti-Menin Picoband Antibody - Background

The MEN1 gene encodes menin, a nuclear scaffold protein that regulates gene transcription by coordinating chromatin remodeling. It is mapped to 11q13.1. MEN1 is considered to act as a tumor suppressor gene. It has been found that that MEN1 inactivation by antisense RNA antagonizes transforming growth factor-beta-mediated cell growth inhibition. Overexpression of MEN1 in an inducible cell culture system downregulated the proximal promoter. In vitro studies have shown that MEN1 is localized to the nucleus, possesses two functional nuclear localization signals, and inhibits transcriptional activation by JunD. What's more, MEN1 was essential to maintain MLL-associated myeloid transformation.