abcam

Product datasheet

Anti-Menin antibody ab2605

1 Abreviews 22 References 4 Images

Overview

Product name	Anti-Menin antibody
Description	Rabbit polyclonal to Menin
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, ChIP, IHC-P, WB, IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Baboon, Rhesus monkey, Gorilla, Orangutan
Immunogen	Synthetic peptide (Human) - which represents a portion of the C-terminus of human MEN1.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
Purification notes	Affinity purified using the immunising peptideimmobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab2605 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★☆ **(1)**	Use at an assay dependent concentration.
ChIP		Use at an assay dependent concentration.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/10000 - 1/25000. Detects a band of approximately 68 kDa (predicted molecular weight: 68 kDa).Can be blocked with **Recombinant Menin protein (ab114387)**.
IP		Use at 2-10 µg/mg of lysate.

Target

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.

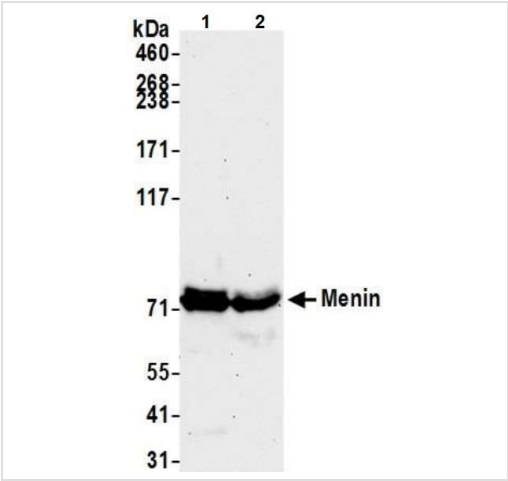
Tissue specificity Ubiquitous.

Involvement in disease Defects in MEN1 are the cause of familial multiple endocrine neoplasia type I (MEN1) [MIM:131100]. Autosomal dominant disorder characterized by tumors of the parathyroid glands, gastro-intestinal endocrine tissue, the anterior pituitary and other tissues. Cutaneous lesions and nervous-tissue tumors can exist. Prognosis in MEN1 patients is related to hormonal hypersecretion by tumors, such as hypergastrinemia causing severe peptic ulcer disease (Zollinger-Ellison syndrome, ZES), primary hyperparathyroidism, and acute forms of hyperinsulinemia.
Defects in MEN1 are the cause of familial isolated hyperparathyroidism (FIHP) [MIM:145000]; also known as hyperparathyroidism type 1 (HRPT1). FIHP is an autosomal dominant disorder characterized by hypercalcemia, elevated parathyroid hormone (PTH) levels, and uniglandular or multiglandular parathyroid tumors.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

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

Images



Western blot - Anti-Menin antibody - ChIP Grade (ab2605)

All lanes : Anti-Menin antibody (ab2605) at 0.04 µg/ml

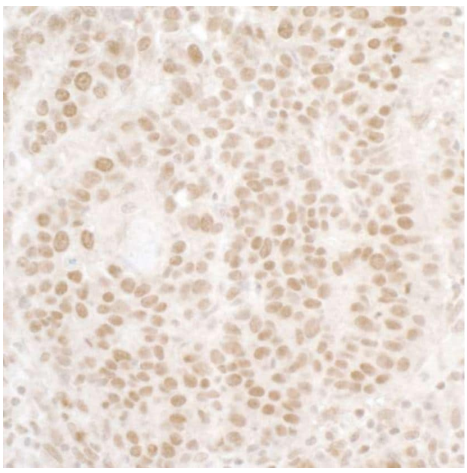
Lane 1 : TCMK-1 (Mouse kidney epithelial cell line) whole cell lysate
Lane 2 : NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate

Lysates/proteins at 50 µg per lane.

Predicted band size: 68 kDa

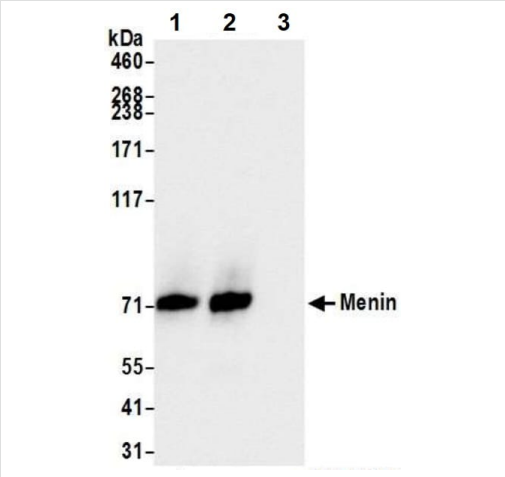
Samples in NETN lysis buffer.

Exposure time: 30 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Menin antibody - ChIP Grade (ab2605)

Immunohistochemical analysis of human lung carcinoma tissue labeling Menin with ab2605 at 1 µg/ml. Detection: DAB.



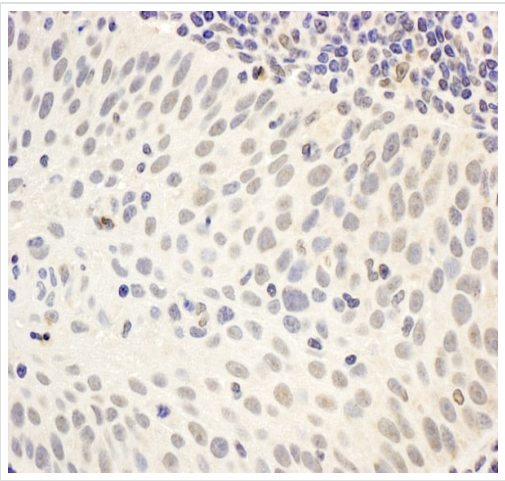
Immunoprecipitation - Anti-Menin antibody (ab2605)

Menin was imunnoprecipitated from 1.0 mg of HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate with ab2605 at 6 µg/ml. Western blot was perfomed from the immunoprecipitate using **ab2506** at 0.04 µg/ml.

Lane 1 and 2: 20% of ab2605 IP in HEK-293T whole cell lysate

Lane 3: Control IgG

Exposure time: 1 second



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Menin antibody - ChIP Grade (ab2605)

Immunohistochemical analysis of human breast carcinoma tissue labelling Menin with ab2605 at 1µg/ml. Detection: DAB.

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