

Anti-Menin Antibody [JE30-97]

HA721313



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|----------------------------|---|
| Product Type: | Recombinant Rabbit monoclonal IgG, primary antibodies |
| Species reactivity: | Human |
| Applications: | WB, IHC-P |
| Molecular Wt: | Predicted band size: 68 kDa |
| Clone number: | JE30-97 |

Description: 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. Component of the MLL-HCF complex, at least composed of KMT2A/MLL1, MEN1, ASH2L, RBBP5, DPY30, WDR5, HCFC1 and HCFC2. Component of the menin-associated histone methyltransferase complex, at least composed of KMT2B/MLL4, MEN1, ASH2L, RBBP5, DPY30 and WDR5. Interacts with POLR2B. Interacts with POLR2A phosphorylated at 'Ser-5', but not with the unphosphorylated, nor 'Ser-2' phosphorylated POLR2A forms. Interacts with FANCD2 and DBF4. Interacts with JUND (via MBM motif); inhibits the interaction of JUND with MAPK10 and the phosphorylation of JUND by MAP kinases MAPK8 and MAPK10.

Immunogen: Synthetic peptide within Human Menin aa 566-615 / 615.

Positive control: 293 cell lysate, PC-3M cell lysate, Jurkat cell lysate, human lung cancer tissue, human testis tissue.

Subcellular location: Nucleus

Database links: SwissProt: O00255 Human

Recommended Dilutions:

WB 1:500-1:1,000

IHC-P 1:200

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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Images

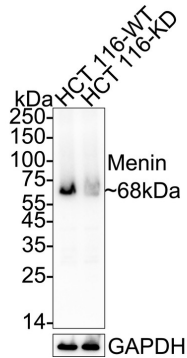


Fig1: Western blot analysis of Menin on different lysates with Rabbit anti-Menin antibody (HA721313) at 1/500 dilution.

Lane 1: HCT 116-si NT cell lysate

Lane 2: HCT 116-si Menin cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 68 kDa

Observed band size: 68 kDa

Exposure time: 30 seconds; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA721313) at 1/500 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Menin on different lysates with Rabbit anti-Menin antibody (HA721313) at 1/500 dilution.

Lane 1: 293 cell lysate

Lane 2: PC-3M cell lysate

Lane 3: Jurkat cell lysate

Lysates/proteins at 10 µg/Lane.

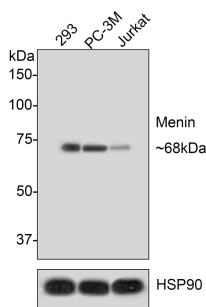
Predicted band size: 68 kDa

Observed band size: 68 kDa

Exposure time: 2 minutes;

8% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA721313) at 1/500 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.



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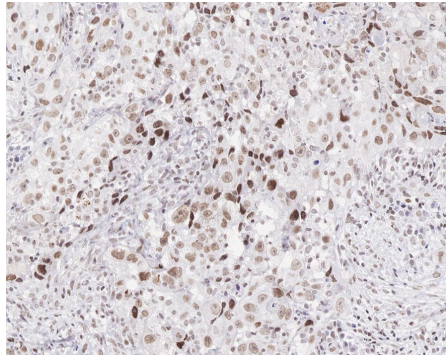


Fig3: Immunohistochemical analysis of paraffin-embedded human lung cancer tissue with Rabbit anti-Menin antibody (HA721313) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721313) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

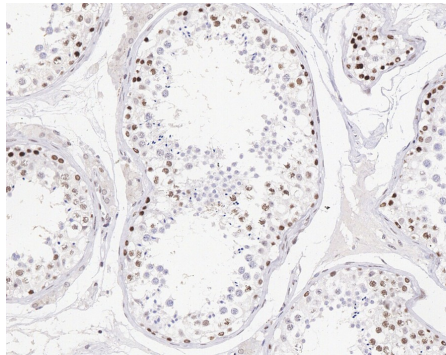


Fig4: Immunohistochemical analysis of paraffin-embedded human testis tissue with Rabbit anti-Menin antibody (HA721313) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721313) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Huang J., Gurung B., Wan B., Matkar S., Veniaminova N.A., Wan K., Merchant J.L., Hua X., Lei M. The same pocket in menin binds both MLL and JUND but has opposite effects on transcription. *Nature* 482:542-546 (2012).
2. Hughes C.M., Rozenblatt-Rosen O., Milne T.A., Copeland T.D., Levine S.S., Lee J.C., Hayes D.N., Shanmugam K.S., Bhattacharjee A., Meyerson M. Menin associates with a trithorax family histone methyltransferase complex and with the hoxc8 locus. *Mol. Cell* 13:587-597 (2004).

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