

# Menin (N-19): sc-8201

## BACKGROUND

Menin is a nuclear protein that is suspected to be a tumor suppressor. Menin is a product of the MEN1 gene, mutations of which result in multiple endocrine neoplasia-1 (MEN1), a familial cancer syndrome characterized by pituitary, parathyroid and enteropancreatic tumors. It has also been shown that somatic mutations of the MEN1 gene can result in sporadic parathyroid adenomas, pancreatic islet cell tumors and carcinoid lung tumors. All of the observed MEN1 mutations confer a loss-of function mechanism, indicating that the loss of Menin function may result in tumorigenesis.

## REFERENCES

1. Debelenko, L.V., et al. 1997. Identification of MEN1 gene mutations in sporadic carcinoid tumors of the lung. *Hum. Mol. Genet.* 6: 2285-2290.
2. Komminoth, P. 1997. Multiple endocrine neoplasia type 1 and 2. 1997 diagnostic guidelines and molecular pathology. *Pathologe* 18: 286-300.
3. Mayr, B., et al. 1997. Menin mutations in patients with multiple endocrine neoplasia type 1. *Eur. J. Endocrinol.* 137: 684-687.
4. Chakrabarti, R., et al. 1998. Deletion mapping of endocrine tumors localizes a second tumor suppressor gene on chromosome band 11q13. *Genes Chromosomes Cancer* 22: 130-137.
5. Shan, L., et al. 1998. Somatic mutations of multiple endocrine neoplasia type 1 gene in the sporadic endocrine tumors. *Lab. Invest.* 78: 471-475.

## CHROMOSOMAL LOCATION

Genetic locus: MEN1 (human) mapping to 11q13; Men1 (mouse) mapping to 19 A.

## SOURCE

Menin (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Menin of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8201 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

Menin (N-19) is recommended for detection of Menin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

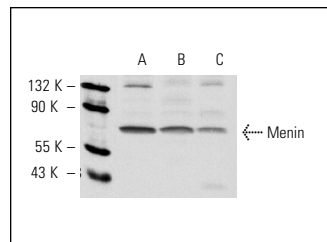
Menin (N-19) is also recommended for detection of Menin in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Menin siRNA (h): sc-35922, Menin siRNA (m): sc-35923, Menin shRNA Plasmid (h): sc-35922-SH, Menin shRNA Plasmid (m): sc-35923-SH, Menin shRNA (h) Lentiviral Particles: sc-35922-V and Menin shRNA (m) Lentiviral Particles: sc-35923-V.

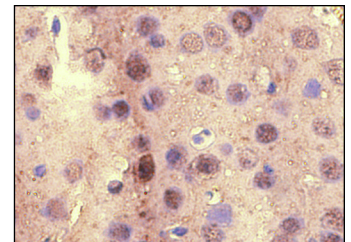
Molecular Weight of Menin: 67 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, Jurkat + PMA nuclear extract: sc-2133 or A-431 nuclear extract: sc-2122.

## DATA



Menin (N-19): sc-8201. Western blot analysis of Menin expression in phorbol-induced Jurkat (A), K-562 (B) and A-431 (C) nuclear extracts.



Menin (N-19): sc-8201. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse brain tissue showing nuclear localization.

## SELECT PRODUCT CITATIONS

1. Wrocklage, C., et al. 2002. Increased Menin expression in sporadic pituitary adenomas. *Clin. Endocrinol.* 56: 589-594.
2. Cavallari, I., et al. 2003. *In situ* analysis of human Menin in normal and neoplastic pancreatic tissues: evidence for differential expression in exocrine and endocrine cells. *J. Clin. Endocrinol. Metab.* 88: 3893-3901.


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Try **Menin (B-9): sc-374371** or **Menin (E-9): sc-390345**, our highly recommended monoclonal alternatives to Menin (N-19).