

Mindin (A-9): sc-166867

BACKGROUND

The thrombospondin proteins, Thrombospondins 1-4 and Thrombospondin 5 (also designated COMP), compose a family of glycoproteins that are involved in cell-to-cell and cell-to-matrix signaling. These extracellular, cell-surface proteins form complexes of both homo- and heteromultimers. Spodin-2, or Mindin, is also designated DIL-1 for its differential expression in cancerous and non-cancerous lung cells. Full-length SPON2 cDNA encodes a 331 amino acid protein with a domain arrangement similar to zebrafish F-spondin and Mindin-1/Mindin-2: an FS1 domain, an FS2 domain, a hydrophobic signal sequence in the N-terminus and a thrombospondin type I repeat. Immunoblot analysis demonstrates expression of dimers and oligomers in a concentration-dependent manner under nonreducing conditions.

REFERENCES

- Higashijima, S., Nose, A., Eguchi, G., Hotta, Y. and Okamoto, H. 1997. Mindin/F-spondin family: novel ECM proteins expressed in the zebrafish embryonic axis. *Dev. Biol.* 192: 211-227.
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- He, Y.W., Li, H., Zhang, J., Hsu, C.L., Lin, E., Zhang, N., Guo, J., Forbush, K.A. and Bevan, M.J. 2004. The extracellular matrix protein Mindin is a pattern-recognition molecule for microbial pathogens. *Nat. Immunol.* 5: 88-97.

CHROMOSOMAL LOCATION

Genetic locus: SPON2 (human) mapping to 4p16.3; Spon2 (mouse) mapping to 5 B1.

SOURCE

Mindin (A-9) is a mouse monoclonal antibody raised against amino acids 196-331 mapping at the C-terminus of Mindin of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Mindin (A-9) is recommended for detection of Mindin and mature Spodin-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Mindin siRNA (h): sc-61046, Mindin siRNA (m): sc-61047, Mindin shRNA Plasmid (h): sc-61046-SH, Mindin shRNA Plasmid (m): sc-61047-SH, Mindin shRNA (h) Lentiviral Particles: sc-61046-V and Mindin shRNA (m) Lentiviral Particles: sc-61047-V.

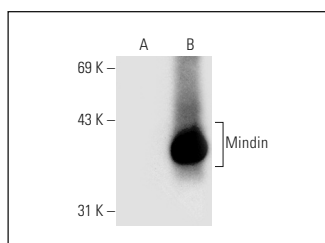
Molecular Weight of Mindin: 36 kDa.

Positive Controls: Mindin (h): 293T Lysate: sc-114252.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Mindin (A-9): sc-166867. Western blot analysis of Mindin expression in non-transfected: sc-117752 (A) and human Mindin transfected: sc-114252 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Schmid, F., et al. 2016. SPON2, a newly identified target gene of MACC1, drives colorectal cancer metastasis in mice and is prognostic for colorectal cancer patient survival. *Oncogene* 35: 5942-5952.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.