

Moesin (SPM295): sc-56440

BACKGROUND

Ezrin, Moesin and Radixin belong to a family of highly homologous Actin-associated proteins that are localized just beneath the plasma membrane. These proteins are believed to be involved in the mediation of interactions between cytoskeletal and membrane proteins. Ezrin serves as a major cytoplasmic substrate of various protein-tyrosine kinases, including the epidermal growth factor receptor. Ezrin has also been identified as a cAMP-dependent protein kinase (A-kinase) anchoring protein and designated AKAP 78. Moesin and Radixin share more than 70% homology with Ezrin and are co-expressed within various cell types. Despite the high degree of homology, the three proteins exhibit a distinct receptor-specific pattern of phosphorylation.

REFERENCES

- Gould, K.L., et al. 1989. cDNA cloning and sequencing of the protein-tyrosine kinase substrate, Ezrin, reveals homology to band 4.1. *EMBO J.* 8: 4133-4142.
- Lankes, W.T. and Furthmayr, H. 1991. Moesin: a member of the protein 4.1-Talin-Ezrin family of protein. *Proc. Natl. Acad. Sci. USA* 88: 8297-8301.

CHROMOSOMAL LOCATION

Genetic locus: MSN (human) mapping to Xq12; Msn (mouse) mapping to X C3.

SOURCE

Moesin (SPM295) is a mouse monoclonal antibody raised against Moesin purified from uterus tissue homogenate of bovine origin.

PRODUCT

Each vial contains 200 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Moesin (SPM295) is recommended for detection of Moesin 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) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with talin or ezrin.

Moesin (SPM295) is also recommended for detection of Moesin in additional species, including bovine and porcine.

Suitable for use as control antibody for Moesin siRNA (h): sc-35955, Moesin siRNA (m): sc-35956, Moesin shRNA Plasmid (h): sc-35955-SH, Moesin shRNA Plasmid (m): sc-35956-SH, Moesin shRNA (h) Lentiviral Particles: sc-35955-V and Moesin shRNA (m) Lentiviral Particles: sc-35956-V.

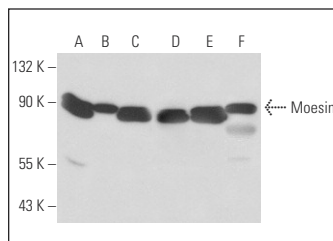
Molecular Weight of Moesin: 77 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, A-431 whole cell lysate: sc-2201 or Jurkat whole cell lysate: sc-2204.

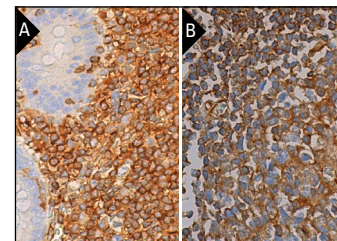
STORAGE

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

DATA



Moesin (SPM295): sc-56440. Western blot analysis of Moesin expression in HeLa (A), A-431 (B), Jurkat (C), HuT 78 (D) and An3 Ca (E) whole cell lysates and rat liver tissue extract (F).



Moesin (SPM295): sc-56440. Immunoperoxidase staining of formalin fixed, paraffin-embedded human appendix tissue showing cytoplasmic and membrane staining of lymphoid cells (A) and human lymph node tissue showing cytoplasmic and membrane staining of cells in germinal center and cells in non-germinal center (B).

RESEARCH USE

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

PROTOCOLS

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



See **Moesin (E-10): sc-13122** for Moesin antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647.