

Moesin (38): sc-136268

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 AKAP78. Moesin and Radixin share more than 70% homology with Ezrin and are coexpressed within various cell types. Despite the high degree of homology, the three proteins exhibit a distinct receptor-specific pattern of phosphorylation.

REFERENCES

1. 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.
2. 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.
3. Sato, N., et al. 1992. A gene family consisting of Ezrin, Radixin and Moesin. Its specific localization at Actin filament/plasma membrane association sites. *J. Cell Sci.* 103: 131-143.

CHROMOSOMAL LOCATION

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

SOURCE

Moesin (38) is a mouse monoclonal antibody raised against amino acids 554-564 of Moesin of human origin.

PRODUCT

Each vial contains 50 µg IgG₁ in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Moesin (38) 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Moesin (38) is also recommended for detection of Moesin in additional species, including canine.

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.

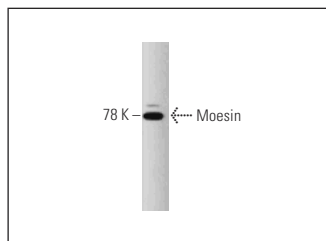
Molecular Weight of Moesin: 77 kDa.

Positive Controls: 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 (38): sc-136268. Western blot analysis of Moesin expression in Jurkat whole cell lysate.

SELECT PRODUCT CITATIONS

1. Steib, C.J., et al. 2010. Amiloride reduces portal hypertension in rat liver cirrhosis. *Gut* 59: 827-836.
2. Goichon, A., et al. 2015. Enteral delivery of proteins enhances the expression of proteins involved in the cytoskeleton and protein biosynthesis in human duodenal mucosa. *Am. J. Clin. Nutr.* 102: 359-367.
3. Zhang, W., et al. 2015. Role of Src in vascular hyperpermeability induced by advanced glycation end products. *Sci. Rep.* 5: 14090.
4. Lee, W., et al. 2015. Role of Moesin in HMGB1-stimulated severe inflammatory responses. *Thromb. Haemost.* 114: 350-363.

RESEARCH USE

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

PROTOCOLS

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



See **Moesin (E-10): sc-13122** for Moesin antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.