**Moesin (E-10): sc-13122**

### 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.

### CHROMOSOMAL LOCATION

Genetic locus: MSN [human] mapping to Xq12; Msn [mouse] mapping to X C3.

### SOURCE

Moesin (E-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 497-526 at the C-terminus of Moesin of human origin.

### PRODUCT

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Moesin (E-10) is available conjugated to agarose (sc-13122 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13122 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-13122 PE), fluorescein (sc-13122 FITC) or Alexa Fluor® 488 (sc-13122 AF488) or Alexa Fluor® 647 (sc-13122 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM. Blocking peptide available for competition studies, sc-13122 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Blocking peptide is a trademark of Molecular Probes, Inc., Oregon, USA.

### APPLICATIONS

Moesin (E-10) 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 (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).

Moesin (E-10) is also recommended for detection of Moesin in additional species, including equine, canine, bovine and porcine.


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

Moebin (E-10): sc-13122. Western blot analysis of Moesin expression in HeLa (A), A-431 (B), Jurkat (C) and NIH/3T3 (D) whole cell lysates.

Moebin (E-10): sc-13122. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoskeletal localization (A); Moebin (E-10) Alexa Fluor® 488: sc-13122 AF488. Direct immunofluorescence staining of formalin-fixed SW480 cells showing membrane localization. Blocked with UltraCruz® Blocking Reagent: sc-516210 (B).

### SELECT PRODUCT CITATIONS


### RESEARCH USE

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