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Anti-Moesin Antibody

Catalog # AP95959

Product Information

Application	WB, IHC, FC
Primary Accession	P26038
Reactivity	Human, Mk
Host	Mouse
Clonality	Monoclonal
Calculated MW	67820

Additional Information

Gene ID	4478
Other Names	Moesin; Membrane-organizing extension spike protein
Target/Specificity	Recombinant fusion protein of human Moesin expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

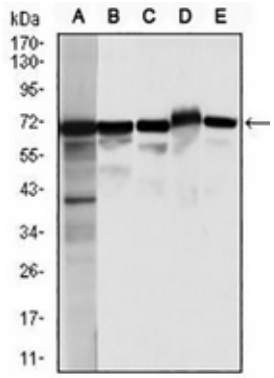
Protein Information

Name	MSN (HGNC:7373)
Function	Ezrin-radixin-moesin (ERM) family protein that connects the actin cytoskeleton to the plasma membrane and thereby regulates the structure and function of specific domains of the cell cortex. Tethers actin filaments by oscillating between a resting and an activated state providing transient interactions between moesin and the actin cytoskeleton (PubMed:10212266). Once phosphorylated on its C-terminal threonine, moesin is activated leading to interaction with F-actin and cytoskeletal rearrangement (PubMed:10212266). These rearrangements regulate many cellular processes, including cell shape determination, membrane transport, and signal transduction (PubMed:12387735, PubMed:15039356). The role of moesin is particularly important in immunity acting on both T and B-cells homeostasis and self-tolerance, regulating lymphocyte egress from lymphoid organs (PubMed:9298994, PubMed:9616160). Modulates phagolysosomal biogenesis in macrophages (By similarity). Also participates in immunologic synapse formation (PubMed:27405666).
Cellular Location	Cell membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P26041}; Cytoplasmic side

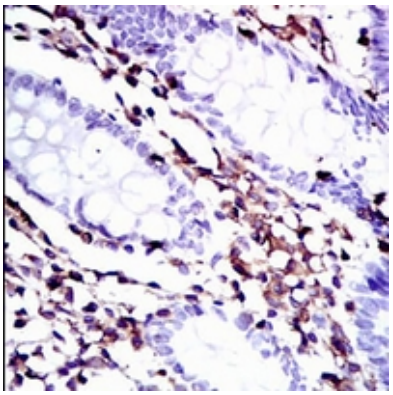
{ECO:0000250|UniProtKB:P26041}. Cytoplasm, cytoskeleton
{ECO:0000250|UniProtKB:P26041}. Apical cell membrane
{ECO:0000250|UniProtKB:P26041}; Peripheral membrane protein
{ECO:0000250|UniProtKB:P26041}; Cytoplasmic side
{ECO:0000250|UniProtKB:P26041}. Cell projection, microvillus membrane
{ECO:0000250|UniProtKB:P26041}; Peripheral membrane protein
{ECO:0000250|UniProtKB:P26041}; Cytoplasmic side
{ECO:0000250|UniProtKB:P26041}. Cell projection, microvillus
{ECO:0000250|UniProtKB:P26041}. Note=Phosphorylated form is enriched in microvilli-like structures at apical membrane. Increased cell membrane localization of both phosphorylated and non-phosphorylated forms seen after thrombin treatment (By similarity). Localizes at the uropods of T lymphoblasts. {ECO:0000250|UniProtKB:P26041, ECO:0000269|PubMed:18586956, ECO:0000269|PubMed:9298994}

Tissue Location In all tissues and cultured cells studied.

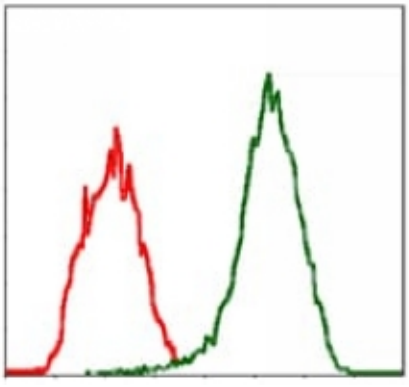
Images



Western blot analysis of Moesin expression in Hela (A), A431 (B), Jurkat (C), HEK293 (D), COS7 (E) whole cell lysates. (Predicted band size: 68 kD; Observed band size: 69 kD)



Immunohistochemical analysis of Moesin staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of Jurkat cells using Anti-Moesin Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.