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Recombinant Anti-Moesin Rabbit mAb

Catalog # AP94965

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	P26038
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	67820

Additional Information

Gene ID	4478
Other Names	Moesin; Membrane-organizing extension spike protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human Moesin protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

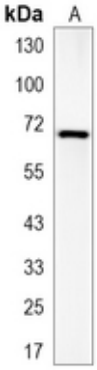
Protein Information

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

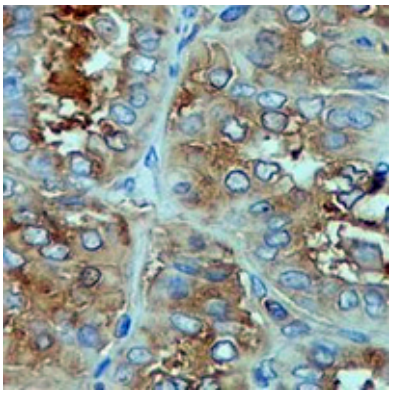
{ECO:0000250|UniProtKB:P26041}; Cytoplasmic side
{ECO:0000250|UniProtKB:P26041}. Cytoplasm, cytoskeleton
{ECO:0000250|UniProtKB:P26041}. Apical cell membrane
{ECO:0000250|UniProtKB:P26041}; Peripheral membrane protein
{ECO:0000250|UniProtKB:P26041}; Cytoplasmic side
{ECO:0000250|UniProtKB:P26041}. Cell 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.

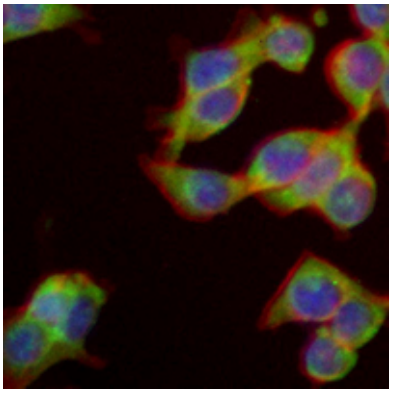
Images



Western blot analysis of Moesin expression in HeLa (A) whole cell lysates. (Predicted band size: 68 kD; Observed band size: 68 kD)



Immunohistochemical analysis of Moesin staining in human thyroid 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.



Immunofluorescent analysis of Moesin staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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