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MSN / Moesin Antibody (clone 2C12)

Mouse Monoclonal Antibody
Catalog # ALS15720

Specification

MSN / Moesin Antibody (clone 2C12) - Product Information

Application	**IHC**
Primary Accession	P26038
Reactivity	**Human, Monkey**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**68kDa KDa**

MSN / Moesin Antibody (clone 2C12) - Additional Information

Gene ID 4478

Other Names
Moesin, Membrane-organizing extension spike protein, MSN

Target/Specificity
Human Moesin

Reconstitution & Storage
Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions
MSN / Moesin Antibody (clone 2C12) is for research use only and not for use in diagnostic or therapeutic procedures.

MSN / Moesin Antibody (clone 2C12) - 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:<a

href="http://www.uniprot.org/citations/9298994" target="_blank">9298994, PubMed:9616160). Modulates phagolysosomal biogenesis in macrophages (By similarity). Participates also 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}

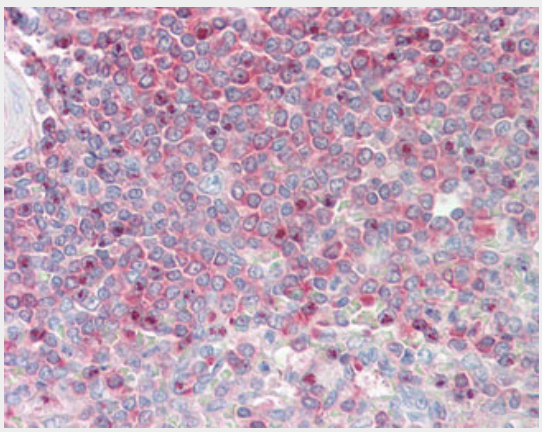
Tissue Location
In all tissues and cultured cells studied.

MSN / Moesin Antibody (clone 2C12) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MSN / Moesin Antibody (clone 2C12) - Images



Anti-MSN / Moesin antibody IHC staining of human spleen.

MSN / Moesin Antibody (clone 2C12) - Background

Probably involved in connections of major cytoskeletal structures to the plasma membrane. May inhibit herpes simplex virus 1 infection at an early stage.

MSN / Moesin Antibody (clone 2C12) - References

Lankes W.T.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:8297-8301(1991).
Ross M.T.,et al.Nature 434:325-337(2005).
Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).
Reczek D.,et al.J. Cell Biol. 139:169-179(1997).
Urzainqui A.,et al.Immunity 17:401-412(2002).