

# MSN Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1688a

## Product Information

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<b>Application</b>	WB, IHC, FC, E
<b>Primary Accession</b>	<a href="#">P26038</a>
<b>Reactivity</b>	Human, Monkey
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	2C12
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	67820
<b>Description</b>	Moesin (for membrane-organizing extension spike protein) is a member of the ERM family which includes ezrin and radixin. ERM proteins appear to function as cross-linkers between plasma membranes and actin-based cytoskeletons. Moesin is localized to filopodia and other membranous protrusions that are important for cell-cell recognition and signaling and for cell movement.
<b>Immunogen</b>	Purified recombinant fragment of human MSN expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	4478
<b>Other Names</b>	Moesin, Membrane-organizing extension spike protein, MSN
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	MSN Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MSN ( <a href="#">HGNC:7373</a> )
<b>Function</b>	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.

## References

Int J Cancer. 2009 Apr 1;124(7):1614-21. J Biol Chem. 2009 Jan 23;284(4):2419-34.

## Images

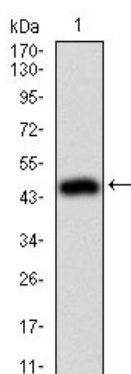


Figure 1: Western blot analysis using MSN mAb against human MSN (AA: 292-491) recombinant protein. (Expected MW is 49.2 kDa)

Figure 2: Western blot analysis using MSN mouse mAb against HeLa (1), A431 (2), Jurkat (3), HEK293 (4), and COS7 (5) cell lysate.

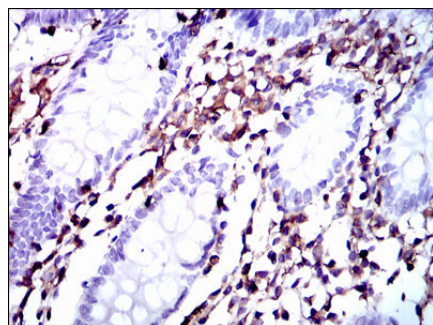
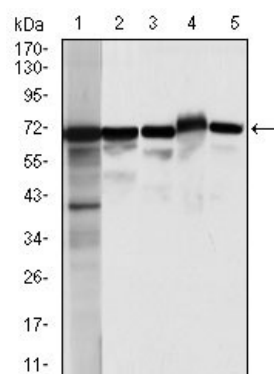


Figure 3: Immunohistochemical analysis of paraffin-embedded colon tissues using MSN mouse mAb with DAB staining.

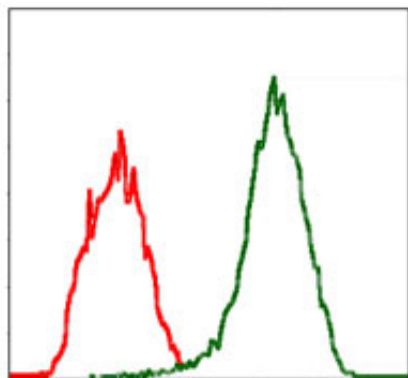


Figure 4: Flow cytometric analysis of Jurkat cells using MSN mouse mAb (green) and negative control (red).

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