

KD-Validated Anti-Moesin Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1594**Specification****KD-Validated Anti-Moesin Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P26038
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 68 kDa , observed , 68 kDa KDa
Gene Name	MSN
Aliases	Moesin; Membrane-Organizing Extension Spike Protein; Epididymis Luminal Protein 70; HEL70; IMD50
Immunogen	A synthesized peptide derived from human Moesin

KD-Validated Anti-Moesin Rabbit Monoclonal Antibody - Additional Information

Gene ID	4478
Other Names	
Moesin, Membrane-organizing extension spike protein, MSN (HGNC:7373)	

KD-Validated Anti-Moesin Rabbit Monoclonal Antibody - 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

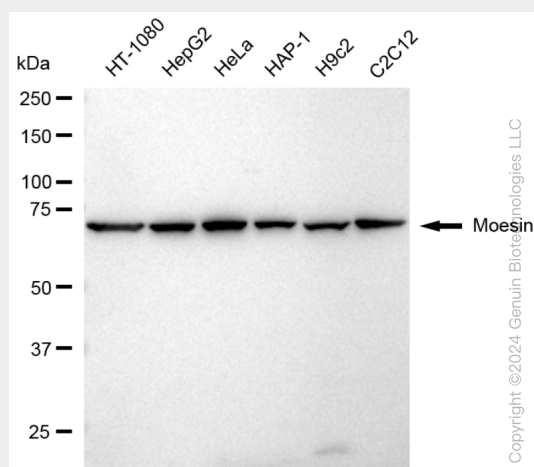
In all tissues and cultured cells studied.

KD-Validated Anti-Moesin Rabbit Monoclonal Antibody - Protocols

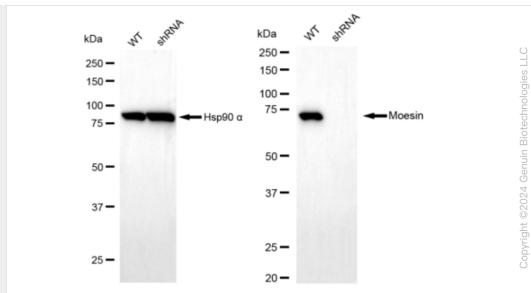
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

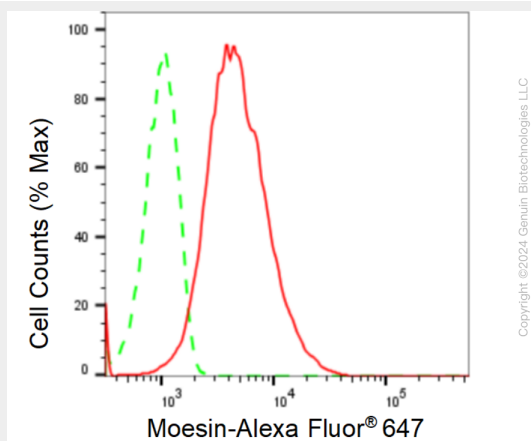
KD-Validated Anti-Moesin Rabbit Monoclonal Antibody - Images



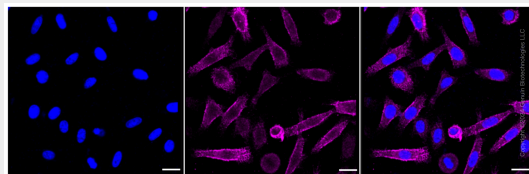
Western blotting analysis using anti-Moesin antibody (Cat#AGI1594). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Moesin antibody (Cat#AGI1594, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Moesin antibody (Cat#AGI1594). Moesin expression in wild type (WT) and Moesin shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Moesin antibody (Cat#AGI1594, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Moesin expression in HepG2 cells using Moesin antibody (Cat#AGI1594, 1:2,000). Green, isotype control; red, Moesin.



Immunocytochemical staining of HeLa cells with anti-Moesin antibody (Cat#AGI1594, 1:1,000). Nuclei were stained blue with DAPI; Moesin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.