

Moesin Polyclonal Antibody

Catalog Number PA5-34666

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Non-human primate, Rat
Host/Isotope	Rabbit / IgG	Published species	Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Dilution *	
Immunogen	Recombinant fragment corresponding to a region within amino acids 400 and 577 of Moesin (Uniprot ID#P26038)	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Conjugate	Unconjugated	Immunoprecipitation (IP)	1:100-1:500
Form	Liquid	Western Blot (WB)	1:500-1:3,000
Concentration	0.21 mg/mL	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Purification	Antigen affinity chromatography	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: NT2D1, GL261, C8D30, NIH-3T3, BCL-1, Raw264.7, C2C12. Predicted reactivity: Mouse (98%), Rat (97%), Pig (98%), Rhesus Monkey (100%), Bovine (99%). IHC notes, Requires antigen retrieval using heat mediated 10mM Citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0) Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

Moesin, a member of the talin-4. 1 superfamily, is a linking protein of the submembraneous actin cytoskeleton. It is expressed in macrophages, lymphocytes, fibroblastic, endothelial, epithelial, and neuronal cell lines but not in blood cells. It is involved in cell adhesion, migration, and organization of cell surface structures.

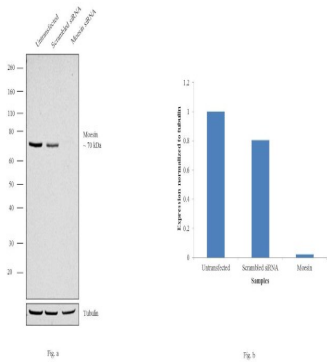
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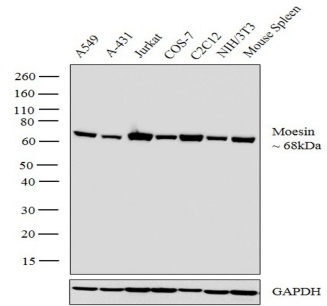
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Product Images For Moesin Polyclonal Antibody



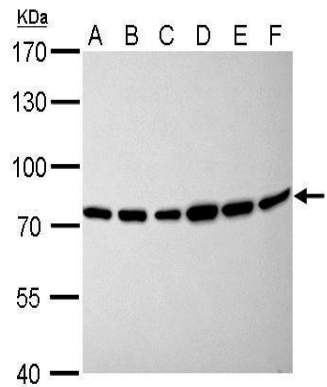
Moesin Antibody (PA5-34666)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A-431 cells were transfected with Moesin siRNA and reduction of signal was observed in Western Blot using Moesin Polyclonal Antibody (Product # PA5-34666). {KD}



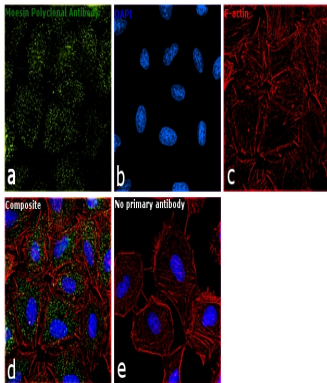
Moesin Antibody (PA5-34666) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (Lane 1), A-431 (Lane 2), Jurkat (Lane 3), COS-7 (Lane 4), C2C12 (Lane 5), NIH/3T3 (Lane 6) and Mouse Spleen (Lane 7). The blot was probed with Anti-Moesin Polyclonal Antibody (Product # PA5-34666, 1:2500 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 68kDa band corresponding to Moesin was observed across all cell lines and tissue lysate tested.



Moesin Antibody (PA5-34666) in WB

Moesin Polyclonal Antibody detects MSN protein by Western blot analysis. A. 30 µg GL261 whole cell lysate/extract. B. 30 µg C8D30 whole cell lysate/extract. C. 30 µg NIH-3T3 whole cell lysate/extract. D. 30 µg BCL-1 whole cell lysate/extract. E. 30 µg Raw264.7 whole cell lysate/extract. F. 30 µg C2C12 whole cell lysate/extract. 7.5 % SDS-PAGE. Moesin Polyclonal Antibody (Product # PA5-34666) dilution: 1:1,000.



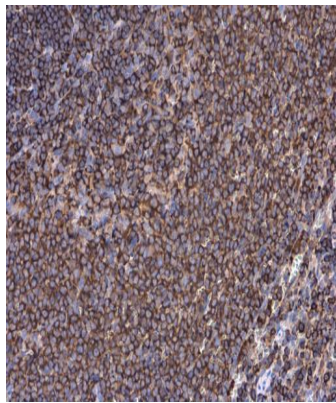
Moesin Antibody (PA5-34666) in ICC/IF

Immunofluorescence analysis of Moesin was performed using 70% confluent log phase A549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Moesin Polyclonal Antibody (Product # PA5-34666) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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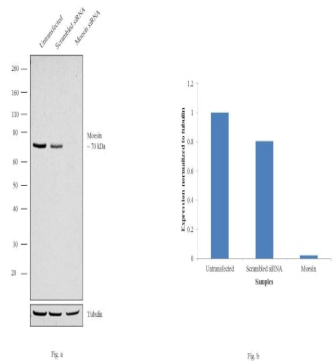
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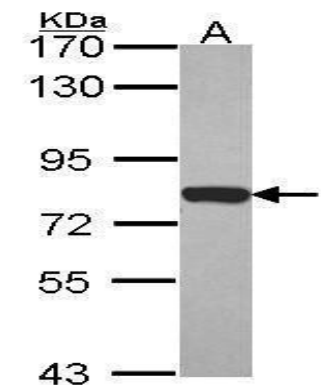
Moesin Antibody (PA5-34666) in IHC (P)

Immunohistochemistry (Paraffin) analysis of Moesin was performed in paraffin-embedded rat spleen tissue using Moesin Polyclonal Antibody (Product # PA5-34666) at a dilution of 1:500.



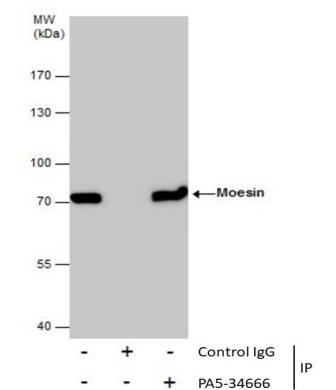
Moesin Antibody (PA5-34666) in WB

Knockdown of Moesin was achieved by transfecting A-431 cells with Moesin specific siRNAs (Silencer® select Product # s8986, s8984). Western blot analysis (Fig. a) was performed using whole cell extracts from the Moesin knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with Moesin Polyclonal Antibody (Product # PA5-34666, 1:1000 dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to Moesin.



Moesin Antibody (PA5-34666) in WB

Western Blot using Moesin Polyclonal Antibody (Product # PA5-34666). Sample (30 µg of whole cell lysate). Lane A: NT2D1. 7.5% SDS PAGE. Moesin Polyclonal Antibody (Product # PA5-34666) diluted at 1:1,000.



Moesin Antibody (PA5-34666) in IP

Immunoprecipitation of Moesin was performed in A431 whole cell extracts using 5 µg of Moesin Polyclonal Antibody (Product # PA5-34666). Samples were transferred to a membrane and probed with Moesin Polyclonal Antibody as a primary antibody and an HRP-conjugated anti-Rabbit IgG was used as a secondary antibody.

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