

## Technical Data Sheet

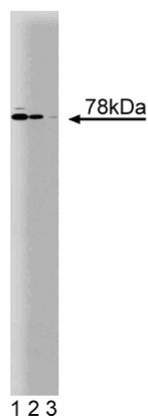
## Purified Mouse Anti-Moesin

## Product Information

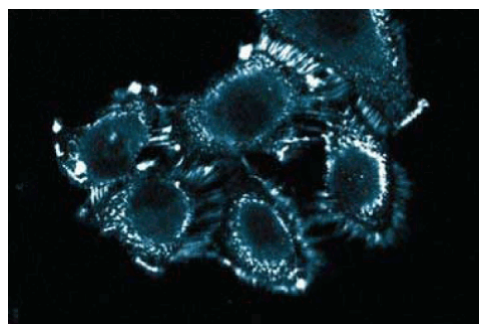
<b>Material Number:</b>	<b>610401</b>
<b>Size:</b>	50 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	38/Moesin
<b>Immunogen:</b>	Human Moesin aa. 554-564
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Mouse, Rat, Dog, Chicken
<b>Target MW:</b>	78 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

Moesin belongs to a family of proteins that includes ezrin and radixin. These proteins are co-expressed in a variety of cells. They localize to the cytoskeleton and modify interactions between cytoskeletal and membrane proteins. There is approximately 70% homology between moesin and ezrin and 80% homology between moesin and radixin. Moesin is intracellular and contains multiple conserved domains that are putative phosphorylation sites. It has a calculated molecular weight of 67.8 kDa, but migrates in SDS-PAGE at approximately 78 kDa. This discrepancy is likely due to a charged alpha-helical region within the protein.



**Western blot analysis of Moesin on a Jurkat cell lysate (Human T-cell leukemia; ATCC TIB-152).** Lane 1: 1:5000, lane 2: 1:10,000, lane 3: 1:20,000 dilution of the mouse anti-Moesin antibody.



**Immunofluorescence staining of A498 cells (Human kidney carcinoma; ATCC HTB-44).**

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

## Application Notes

## Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Tested During Development
Immunohistochemistry	Not Recommended

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**Recommended Assay Procedure:**

**Western blot:** Please refer to [http://www.bdbiosciences.com/pharmingen/protocols/Western\\_Blotting.shtml](http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml)

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

**References**

Lankes WT, Furthmayr H. Moesin: a member of the protein 4.1-talin-ezrin family of proteins. *Proc Natl Acad Sci U S A*. 1991; 88(19):8297-8301.(Biology)

Lankes WT, Schwartz-Albiez R, Furthmayr H. Cloning and sequencing of porcine moesin and radixin cDNA and identification of highly conserved domains. *Biochim Biophys Acta*. 1993; 1216(3):479-482.(Biology)

Parlato S, Giammarioli AM, Logozzi M, et al. CD95 (APO-1/Fas) linkage to the actin cytoskeleton through ezrin in human T lymphocytes: a novel regulatory mechanism of the CD95 apoptotic pathway. *EMBO J*. 2000; 19(19):5123-5134.(Biology: Immunofluorescence, Western blot)

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Seveau S, Keller H, Maxfield FR, Piller F, Halbwachs-Mecarelli L. Neutrophil polarity and locomotion are associated with surface redistribution of leukosialin (CD43), an antiadhesive membrane molecule. *Blood*. 2000; 95(8):2462-2470.(Biology: Immunofluorescence, Western blot)