abcam

Product datasheet

Anti-Moesin antibody [MSN/492] - BSA and Azide free ab215840

KO VALIDATED

7 Images

Overview

Product name	Anti-Moesin antibody [MSN/492] - BSA and Azide free
Description	Mouse monoclonal [MSN/492] to Moesin - BSA and Azide free
Host species	Mouse
Tested applications	**Suitable for:** ICC, WB, IHC-P
Species reactivity	**Reacts with:** Human **Does not react with:** Rat
Immunogen	Recombinant full length protein corresponding to Human Moesin aa 1 to the C-terminus. Database link: **P26038** Run BLAST with Run BLAST with
Positive control	IHC-P: Human melanoma, testicular carcinoma and placenta tissues. WB: HeLa whole cell lysate
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	ab215840 is purified from Bioreactor Concentrate by Protein A/G.

Clonality	Monoclonal
Clone number	MSN/492
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab215840 in the following tested applications.

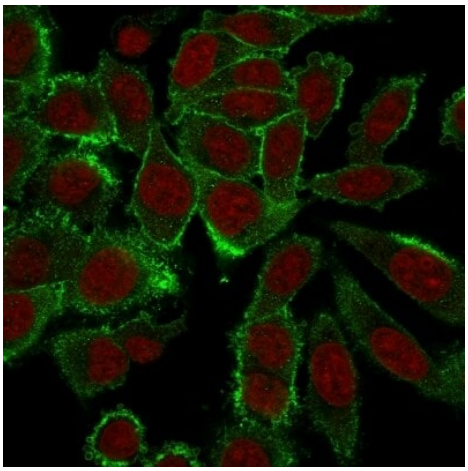
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use a concentration of 1 - 2 µg/ml.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 68 kDa.
IHC-P		Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Probably involved in connections of major cytoskeletal structures to the plasma membrane.
Tissue specificity	In all tissues and cultured cells studied.
Sequence similarities	Contains 1 FERM domain.
Post-translational modifications	Phosphorylation on Thr-558 is crucial for the formation of microvilli-like structures.
Cellular localization	Cell membrane. Cytoplasm > cytoskeleton. Apical cell membrane. Cell projection > microvillus membrane. Phosphorylated form is enriched in microvilli-like structures at apical membrane (By similarity). Increased cell membrane localization of both phosphorylated and non-phosphorylated forms seen after thrombin treatment.

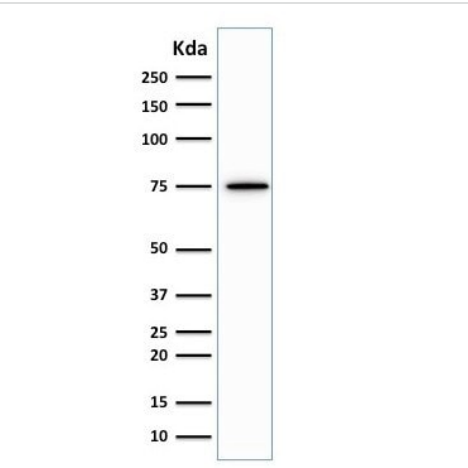
Images



Immunocytochemistry - Anti-Moesin antibody [MSN/492] - BSA and Azide free (ab215840)

This data was developed using **ab216033**, the same antibody clone in a different buffer formulation.

Immunocytochemistry analysis of paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Moesin with **ab216033** followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).

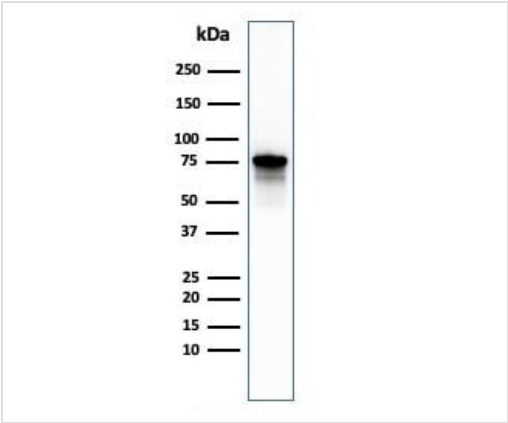


Western blot - Anti-Moesin antibody [MSN/492] - BSA and Azide free (ab215840)

Anti-Moesin antibody [MSN/492] (**ab216033**) + Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Predicted band size: 68 kDa

This data was developed using **ab216033**, the same antibody clone in a different buffer formulation.

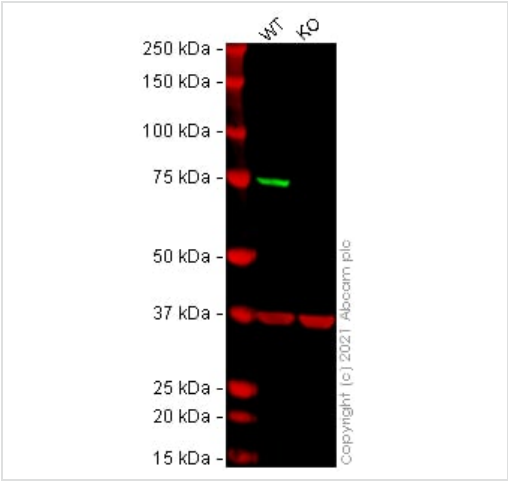


Western blot - Anti-Moesin antibody [MSN/492] - BSA and Azide free (ab215840)

Anti-p53 (mono methyl K372) antibody (**ab16033**) + PC-3 (human prostate adenocarcinoma cell line) whole cell lysate

Predicted band size: 68 kDa

This data was developed using **ab216033**, the same antibody clone in a different buffer formulation.



Western blot - Anti-Moesin antibody [MSN/492] - BSA and Azide free (ab215840)

All lanes : Anti-Moesin antibody [MSN/492] (**ab216033**) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : MSN knockout HeLa cell lysate

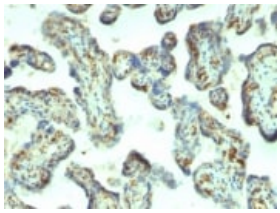
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 68 kDa
Observed band size: 75 kDa

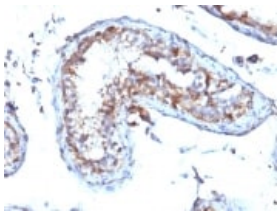
False colour image of Western blot: Anti-Moesin antibody [MSN/492] staining at 1/1000 dilution, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] (**ab181602**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab216033** was shown to bind specifically to Moesin. A band was observed at 75 kDa in wild-type HeLa cell lysates with no signal observed at this size in MSN knockout cell line **ab265020** (knockout cell lysate **ab257542**). To generate this image, wild-type and MSN knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane.

Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) at 1/20000 dilution.



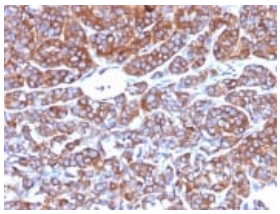
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Moesin antibody [MSN/492] - BSA and Azide free (ab215840)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human placenta tissue labeling Moesin with ab215840 at 1 µg/ml dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Moesin antibody [MSN/492] - BSA and Azide free (ab215840)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human testicular carcinoma tissue labeling Moesin with ab215840 at 1 µg/ml dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Moesin antibody [MSN/492] - BSA and Azide free (ab215840)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human melanoma tissue labeling Moesin with ab215840 at 1 µg/ml dilution.

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