abcam

ab270442

Anti-Ezrin antibody [EPR23353-55]

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR23353-55
Purification technique	Affinity purification Protein A
Concentration	0.601 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Species	Rat

Dilution info	1/30
Notes	-

Species	Human
Dilution info	1/30
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/50
Notes	100% methanol fixation is recommended.

Species	Human
Dilution info	1/50
Notes	100% methanol fixation is recommended.

Not recommended

Species	Rat
Dilution info	-
Notes	100% methanol fixation is recommended.

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Rat
Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/2000
Notes	-

Species	Rat
Dilution info	1/2000
Notes	-

Not recommended

Species	Human
Dilution info	-

Notes	-

Target data

See full target information EZR

Function	Probably involved in connections of major cytoskeletal structures to the plasma membrane. In epithelial cells, required for the formation of microvilli and membrane ruffles on the apical pole. Along with PLEKHG6, required for normal macropinocytosis.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Ezrin also known as cytovillin or villin-2 is a protein belonging to the ezrin-radixin-moesin (ERM) family. It is approximately 81 kDa in molecular weight. Ezrin plays a critical role in linking the actin cytoskeleton to the plasma membrane. This interaction occurs through its ability to bind to membrane proteins and phospholipids facilitating structural support and signal transduction. Ezrin is widely expressed in epithelial tissues but it also occurs in other cell types such as lymphocytes and osteoclasts.
Biological function summary	Ezrin functions as a membrane-microfilament linker and is essential for maintaining cell shape adhesion and motility. It is an integral component of many cellular structures including microvilli and ruffles. Ezrin's activity often involves forming complexes with other proteins such as EBP50 and F-actin which are fundamental for its role in cellular morphogenesis. These interactions allow ezrin to regulate membrane surface structure and cell surface organization.
Pathways	Ezrin participates in various signaling pathways that are essential for cell migration and invasion. One key pathway is the Rho family of GTPases which regulates actin cytoskeleton dynamics. Ezrin interacts with proteins like Rho-associated kinase (ROCK) that influence cell contraction and motility. Additionally ezrin is involved in the MAPK/ERK pathway which influences cell growth and survival by interacting with other signaling molecules.
Associated diseases and disorders	Ezrin shows significant relevance to cancer progression and metastasis particularly in conditions like osteosarcoma. Ezrin overexpression correlates with increased metastatic potential and poor clinical outcomes. It also has implications in allergic diseases due to its role in immune cell function. In these contexts ezrin interacts with SRC family kinases which are important for transmitting signals from cell-surface receptors to downstream pathways influencing disease development and progression.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

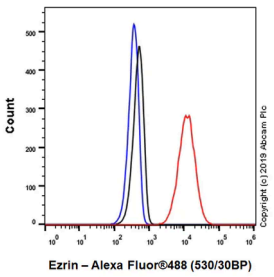
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

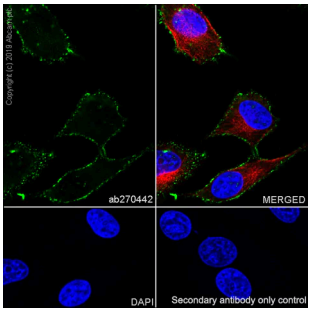
17 product images



Flow Cytometry (Intracellular) - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Flow Cytometry (Intracellular) staining using rabbit Anti-Ezrin antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Ezrin with ab270442 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.

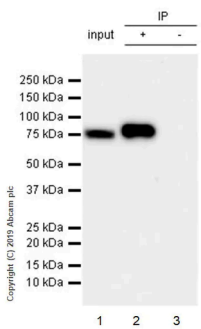


Immunocytochemistry/ Immunofluorescence - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Ezrin antibody

Immunofluorescent analysis of 100% methanol-fixed HeLa cells labeling Ezrin with ab270442 at 1/50 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing membranous and weak cytoplasmic staining in HeLa cells. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue). 100% methanol fixation is recommended.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Immunoprecipitation - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with ab270442 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab270442 at 1/1000 dilution (0.549 µg/ml). VeriBlot for IP Detection Reagent (HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: HeLa whole cell lysate 10 µg.

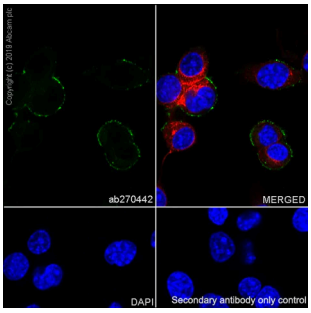
Lane 2: ab270442 IP in HeLa whole cell lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab270442 in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 32 secs.

All lanes:
Immunoprecipitation - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Predicted band size: 69 kDa

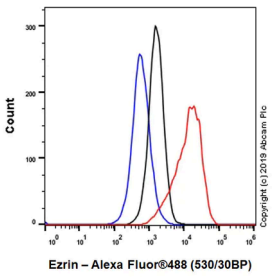


Immunocytochemistry/ Immunofluorescence - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Ezrin antibody

Immunofluorescent analysis of 100% methanol-fixed Neuro-2a cells labeling Ezrin with ab270442 at 1/50 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing membranous and weak cytoplasmic staining in Neuro-2a cells. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).
100% methanol fixation is recommended.

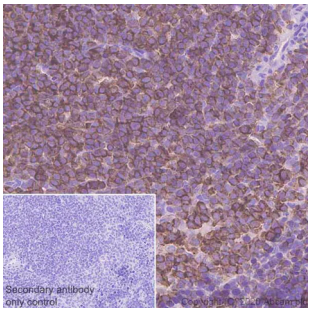
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Flow Cytometry (Intracellular) staining using rabbit Anti-Ezrin antibody

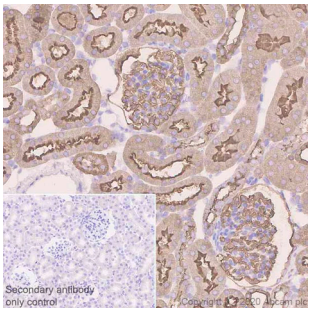
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized C6 (Rat glial tumor glial cell) cells labeling Ezrin with ab270442 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ezrin antibody

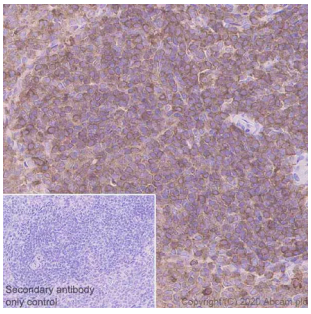
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling Ezrin with ab270442 at 1/2000 followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on mouse spleen. The section was incubated with ab270442 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution) for 20 mins.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ezrin antibody

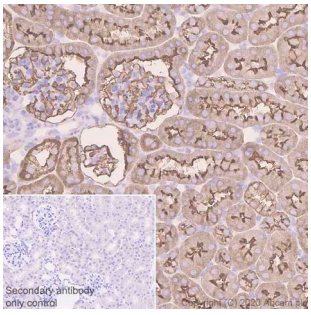
Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling Ezrin with ab270442 at 1/2000 followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on rat kidney (PMID: 16522749). The section was incubated with ab270442 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ezrin antibody

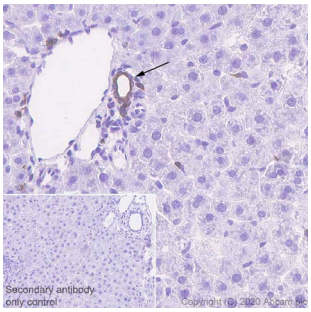
Immunohistochemical analysis of paraffin-embedded rat spleen tissue labeling Ezrin with ab270442 at 1/2000 followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on rat spleen.The section was incubated with ab270442 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution) for 20 mins.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ezrin antibody

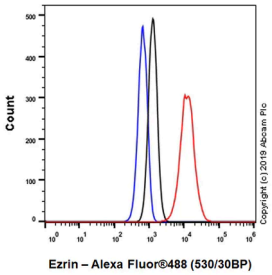
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling Ezrin with ab270442 at 1/2000 followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on mouse kidney (PMID: 16522749). The section was incubated with ab270442 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ezrin antibody

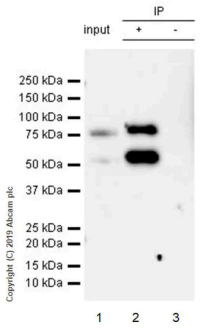
Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling Ezrin with ab270442 at 1/2000 followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on biliary epithelial cells in rat liver (PMID: 23507543). The section was incubated with ab270442 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).



Flow Cytometry (Intracellular) - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin Flow Cytometry (Intracellular) staining using rabbit Anti-Ezrin antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized Neuro-2a (Mouse neuroblastoma neuroblast) cells labeling Ezrin with ab270442 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Ezrin was immunoprecipitated from 0.35 mg C6 (rat glial tumor glial cell) whole cell lysate with ab270442 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using 270442 1/1000 dilution (0.549 µg/ml). VeriBlot for IP Detection Reagent (HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: C6 whole cell lysate 10 µg.
Lane 2: ab270442 IP in C6 whole cell lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab270442 in C6 whole cell lysate.

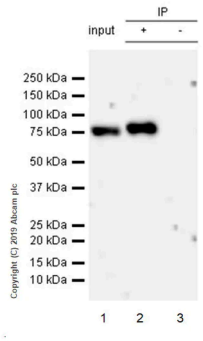
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 84 secs.

The band of 55kDa is endogenously cleaved N-terminus form.

All lanes:
Immunoprecipitation - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Predicted band size: 69 kDa



Immunoprecipitation - Anti-Ezrin antibody [EPR23353-55] (ab270442)

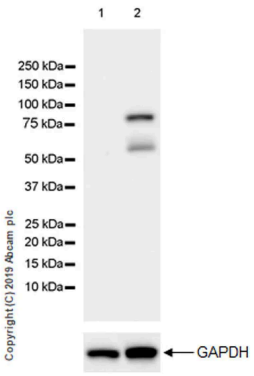
Ezrin was immunoprecipitated from 0.35 mg Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate with ab270442 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab270442 at 1/1000 dilution (0.549 µg/ml). VeriBlot for IP Detection Reagent (HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: Neuro-2a whole cell lysate 10 µg.
Lane 2: ab270442 IP in Neuro-2a whole cell lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab270442 in Neuro-2a whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 mins.

All lanes:
Immunoprecipitation - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Predicted band size: 69 kDa



Western blot - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Blocking/diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: 6 secs.

The band of 55kDa is the endogenously cleaved N-terminal form.
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 11124833, 17370041, 10388520).
Negative control: Human liver (PMID: 11124833).

All lanes:
Western blot - Anti-Ezrin antibody [EPR23353-55] (ab270442) at 1/1000 dilution

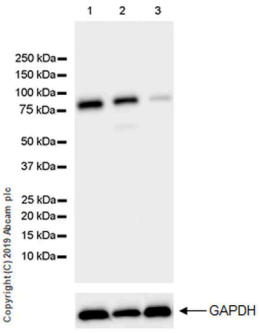
Lane 1:
Human liver tissue lysate at 20 µg

Lane 2:
Human kidney tissue lysate at 20 µg

Secondary

All lanes:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Predicted band size: 69 kDa



Western blot - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Blocking/diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: 6 secs.

The band of 55kDa is the endogenously cleaved N-terminal form.
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 11124833, 17370041, 10388520).

Lower expression cell line: MDA-MB-435S (PMID: 17370041).

All lanes:
Western blot - Anti-Ezrin antibody [EPR23353-55] (ab270442) at 1/1000 dilution

Lane 1:
HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
A549 (human lung carcinoma epithelial cell) whole cell lysate at 20 µg

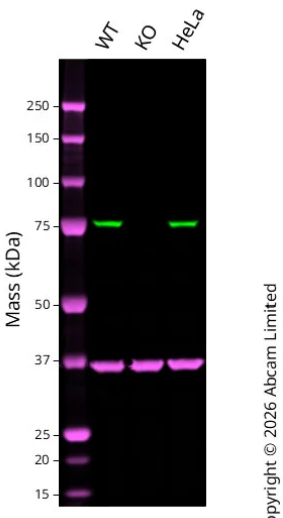
Lane 3:
MDA-MB-435S (human mammary gland ductal carcinoma melanocyte) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 69 kDa

Western blot - Anti-Ezrin antibody [EPR23353-55] (ab270442)



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Ezrin Western blot staining using rabbit Anti-Ezrin antibody

Western blot: Anti-Ezrin antibody [EPR23353-55] ab270442 staining at 1/1000 dilution, shown in green; Mouse anti GAPDH ab8245 loading control staining at 1/20000 dilution, shown in magenta. A band was observed at 76 kDa in Wild-type A549 cell lysates with no signal observed at this size in EZR knockout A549 cell line. To generate this image, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3pc 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-Rabbit 800CW and Goat anti-Mouse 680RD at 1/20,000 dilution.
All lanes:
Western blot - Anti-Ezrin antibody [EPR23353-55] (ab270442) at 1/1000 dilution

Lane 1:
Wild-type A549 at 20 µg

Lane 2:
Western blot - Human EZR knockout A549 cell line (ab300934) at 20 µg

Lane 3:
HeLa at 20 µg

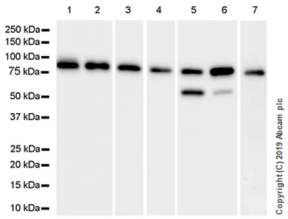
Secondary

All lanes:
Goat anti-Rabbit 800CW & Goat anti-Mouse 680RD at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 76 kDa

Observed band size: 76 kDa



Western blot - Anti-Ezrin antibody [EPR23353-55] (ab270442)

Blocking/diluting buffer and concentration: 5% NFDM/TBST.
Exposure times: Lanes 1-6: 15 secs; Lane 7: 3 mins.

The band of 55kDa is the endogenously cleaved N-terminal form.
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 11124833, 17370041, 10388520).

All lanes:
Western blot - Anti-Ezrin antibody [EPR23353-55] (ab270442) at 1/1000 dilution

Lane 1:
Mouse hippocampus tissue lysate at 20 µg

Lane 2:
Mouse fetal brain tissue lysate at 20 µg

Lane 3:
Rat brain tissue lysate at 20 µg

Lane 4:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Lane 5:
C6 (rat glial tumor glial cell) whole cell lysate at 20 µg

Lane 6:
PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate at 20 µg

Lane 7:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 69 kDa

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