abcam

ab273093

Anti-MVP antibody [EPR23594-106]

Recombinant | RabMAb | KO Validated

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	EPR23594-106
Purification technique	Affinity purification Protein A
Concentration	0.549 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
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	-

Species	Human
Dilution info	1/50
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/50
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/4000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information MVP

Function	Required for normal vault structure. Vaults are multi-subunit structures that may act as scaffolds for proteins involved in signal transduction. Vaults may also play a role in nucleo-cytoplasmic transport. Down-regulates IFNG-mediated STAT1

signaling and subsequent activation of JAK. Down-regulates SRC activity and signaling through MAP kinases.

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.

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.

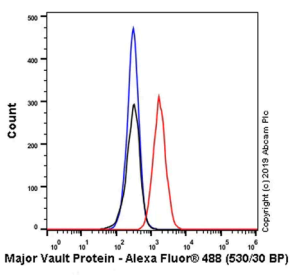
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

---

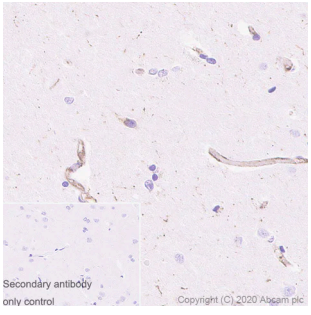
10 product images



Flow Cytometry (Intracellular) - Anti-MVP antibody [EPR23594-106] (ab273093)

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

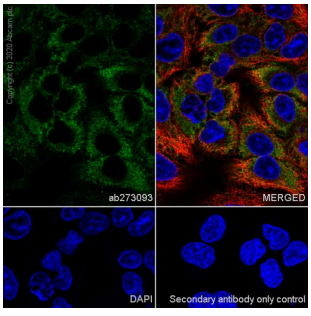
Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized A549 (Human lung carcinoma epithelial cell) cells labelling MVP with ab273093 at 1/50 dilution (1µg) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). 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-MVP antibody [EPR23594-106] (ab273093)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labeling MVP with ab273093 at 1/4000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in endothelium of human cerebrum (PMID: 14636345). Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

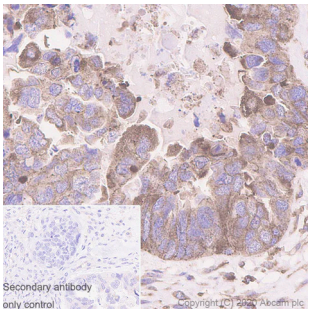


Immunocytochemistry/ Immunofluorescence - Anti-MVP antibody [EPR23594-106] (ab273093)

MVP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MVP antibody

Immunofluorescent analysis of 100% methanol-fixed, 0.1% Triton X-100 permeabilized A549 cells labelling MVP with ab273093 at 1/50 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing cytoplasmic staining in A549 cell line. ab195889 Anti-alpha Tubulin mouse monoclonal antibody -

Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5 µg/ml dilution (Red). The nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 2 µg/ml dilution.

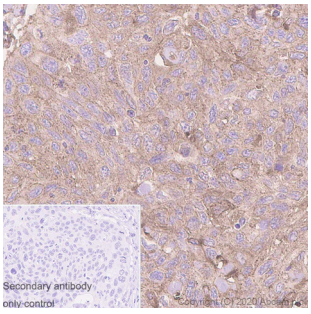


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR23594-106] (ab273093)

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

Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue labeling MVP with ab273093 at 1/4000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in human ovary cancer (PMID: 23739867). Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

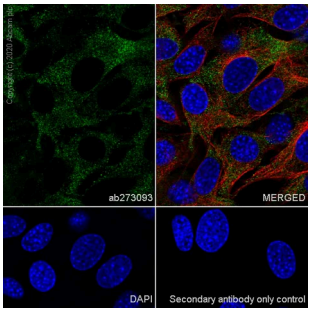


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR23594-106] (ab273093)

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

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue labeling MVP with ab273093 at 1/4000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in human lung cancer (PMID: 22117969). Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

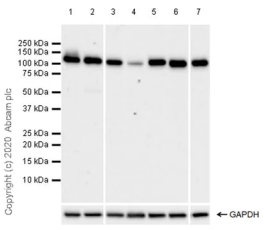
Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).



Immunocytochemistry/ Immunofluorescence - Anti-MVP antibody [EPR23594-106] (ab273093)

MVP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MVP antibody

Immunofluorescent analysis of 100% methanol-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 cells labelling MVP with ab273093 at 1/50 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing cytoplasmic staining in NIH/3T3 cell line. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5 µg/ml dilution (Red). The nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 2 µg/ml dilution.



Western blot - Anti-MVP antibody [EPR23594-106] (ab273093)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
The molecular weight observed is consistent with what has been described in the literature (PMID: 23462207).

MVP expression can be induced by IFN gamma in HeLa cell (PMID: 16418217).

Exposure time: 70 seconds.

All lanes:
Western blot - Anti-MVP antibody [EPR23594-106] (ab273093) at 1/1000 dilution

Lane 1:
A549 (human lung carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
A431 (human epidermoid carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 3:
Caco-2 (human colorectal adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 4:
Untreated HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 5:
HeLa treated with 100U/ml IFN gamma for 24 hours, whole cell lysate at 20 µg

Lane 6:
RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 20 µg

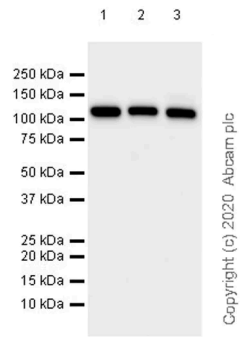
Lane 7:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 99 kDa

Observed band size: 110 kDa



Western blot - Anti-MVP antibody [EPR23594-106] (ab273093)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: 10 seconds.

All lanes:
Western blot - Anti-MVP antibody [EPR23594-106] (ab273093) at 1/1000 dilution

Lane 1:
Human colon tissue lysate at 20 µg

Lane 2:
Human lung tissue lysate at 20 µg

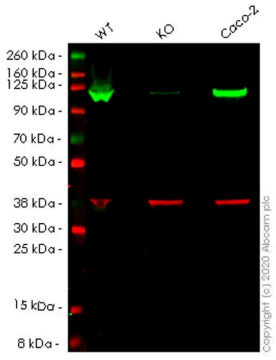
Lane 3:
Human kidney tissue lysate at 20 µg

Secondary

All lanes:
VeriBlot for IP secondary antibody(HRP)(ab131366) at 1/1000 dilution

Predicted band size: 99 kDa

Observed band size: 110 kDa



Western blot - Anti-MVP antibody [EPR23594-106] (ab273093)

MVP Western blot staining using rabbit Anti-MVP antibody

Lanes 1-3: Merged signal (red and green). Green - ab273093 observed at 110 kDa. Red - loading control ab8245 (Mouse monoclonal [6C5] to GAPDH) observed at 36 kDa.

ab273093 Anti-MVP antibody [EPR23594-106] was shown to specifically react with MVP in wild-type HeLa cells in Western blot. Significant decrease (8.7 % of intensity compared to the WT band) of signal was observed when MVP knockout cell line ab264817 (knockout cell lysate ab257544) was used.

ab273093 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated at 4☒ overnight at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.
All lanes:
Western blot - Anti-MVP antibody [EPR23594-106] (ab273093) at 1/1000 dilution

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

Lane 2:
MVP knockout HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
Western blot - Human MVP knockout HeLa cell line (ab264817)

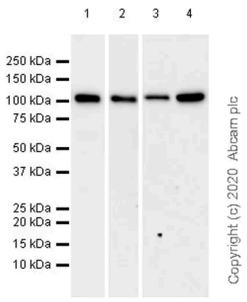
Lane 3:
Caco-2 (human colorectal adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 99 kDa

Observed band size: 110 kDa



Western blot - Anti-MVP antibody [EPR23594-106] (ab273093)

MVP Western blot staining using rabbit Anti-MVP antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: Lane 1: 26 seconds; Lane 2-4: 70 seconds.

All lanes:
Western blot - Anti-MVP antibody [EPR23594-106] (ab273093) at 1/1000 dilution

Lane 1:
Mouse colon tissue lysate at 20 µg

Lane 2:
Mouse kidney tissue lysate at 20 µg

Lane 3:
C6 (rat glial tumor glial cell) whole cell lysate at 20 µg

Lane 4:
PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 99 kDa

Observed band size: 110 kDa

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