abcam

ab175239

Anti-MVP antibody [EPR13227(B)]

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	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	EPR13227(B)
Purification technique	Affinity purification Protein A
Concentration	0.916 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/50 - 1/350
Notes	-

WB

Tested

Species	Human
Dilution info	1/2000
Notes	**For unpurified use at 1/10000 - 1/50000.**

ICC/IF

Tested

Species	Human
Dilution info	1/150 - 1/500
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

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

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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

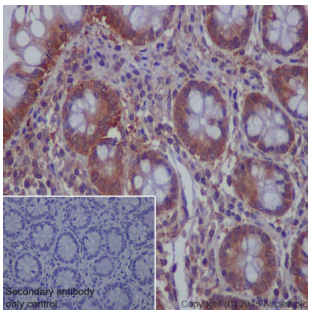
We do not recommend this combination. It is not covered by our product promise.

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.

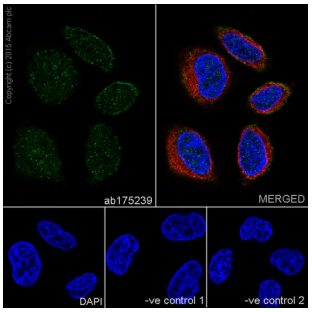
12 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR13227(B)] (ab175239)

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling MVP with purified ab175239 at a dilution of 1/350. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

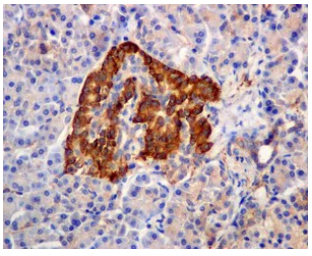


Immunocytochemistry/ Immunofluorescence - Anti-MVP antibody [EPR13227(B)] (ab175239)

MVP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MVP antibody

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling MVP with purified ab175239 at a dilution of 1/150. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.
Control 1: primary antibody (1/150) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

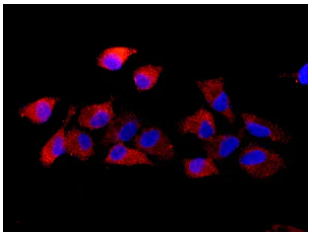
Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR13227(B)] (ab175239)

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

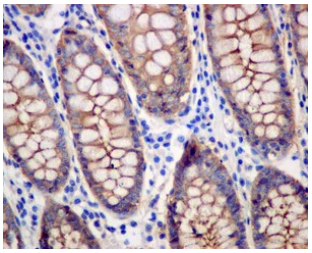
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human pancreas tissue labeling MVP with unpurified ab175239 at a dilution of 1/50.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-MVP antibody [EPR13227(B)] (ab175239)

MVP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MVP antibody

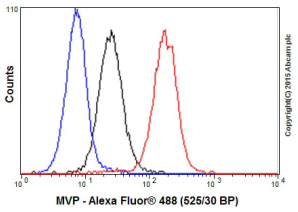
Immunocytochemistry/Immunofluorescence analysis of A549 cells labeling MVP with unpurified ab175239 at a dilution of 1/250 (red) and DAPI staining (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR13227(B)] (ab175239)

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

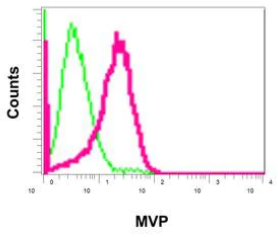
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labeling MVP with unpurified ab175239 at a dilution of 1/50.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-MVP antibody [EPR13227(B)] (ab175239)

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

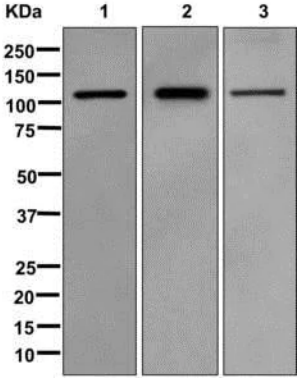
Intracellular Flow Cytometry analysis of A549 cells labelling MVP with purified ab175239 at a dilution of 1/180 (red). Cells were fixed with 4% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Flow Cytometry (Intracellular) - Anti-MVP antibody [EPR13227(B)] (ab175239)

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

Intracellular flow cytometrical analysis of permeabilized A549 cells labeling MVP with unpurified ab175239 antibody at a dilution of 1/100 (red) compared to a negative control (Rabbit IgG, green).



Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239)

All lanes:
Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239) at 1/10000 dilution

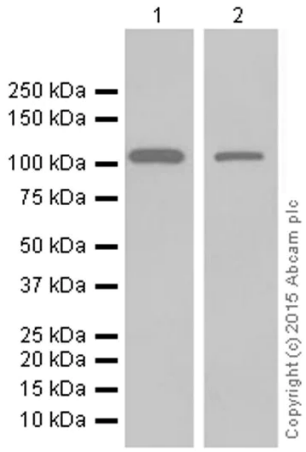
Lane 1:
A549 cell lysate at 10 µg

Lane 2:
Calu-3 cell lysate at 10 µg

Lane 3:
HeLa cell lysate at 10 µg

Predicted band size: 99 kDa

Observed band size: 110 kDa



Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239)

Blocking and dilution buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239) at 1/10000 dilution

Lane 1:
Calu-3 whole cell lysate at 20 µg

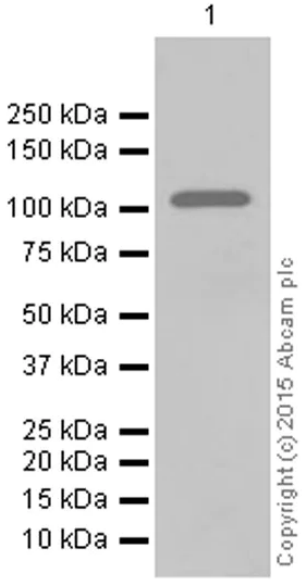
Lane 2:
A549 whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 53 kDa, 55 kDa, 73 kDa, 97 kDa, 99 kDa

Observed band size: 110 kDa



Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239)

Blocking and dilution buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239) at 1/2000 dilution

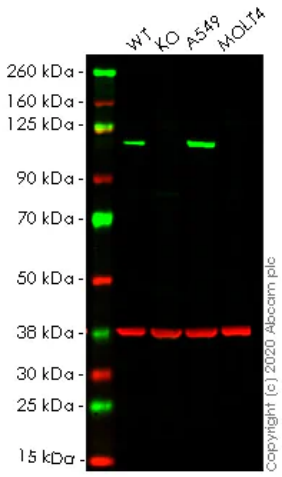
All lanes:
Caco-2 whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 99 kDa

Observed band size: 110 kDa



Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239)

MVP Western blot staining using rabbit Anti-MVP antibody

ab175239 Anti-MVP antibody [EPR13227(B)] was shown to specifically react with MVP in HeLa wild-type cells (ab255448). Loss of signal was observed when knockout cell line ab264817 (knockout cell lysate ab257544) was used. Wild-type and MVP knockout samples were subjected to SDS-PAGE. ab175239 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 2000 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 20000 dilution for 1 hour at room temperature before imaging.
All lanes:
Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239) at 1/2000 dilution

Lane 1:
Wild-type HeLa lysate at 20 µg

Lane 2:
Western blot - Human MVP knockout HeLa cell lysate (ab257544) at 20 µg

Lane 3:
A549 lysate at 20 µg

Lane 4:
MOLT-4 lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 99 kDa

Observed band size: 110 kDa

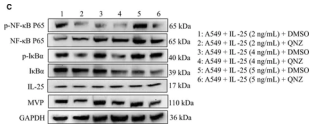


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Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239)

MVP Western blot staining using rabbit Anti-MVP antibody

MVP western blot using anti-MVP antibody [EPR13227(B)] ab175239. Publication image and figure legend from Shen, W., Qiu, Y., et al., 2019, Cancer Med, PubMed 31044552.

ab175239 was used in this publication in western blot. This may not be the same as the application(s) guaranteed by Abcam. For a full list of applications guaranteed by Abcam for ab175239 please see the product overview.

IL-25 regulates the NF-κB signaling pathway activity. A, The change of NF-κB signaling pathway in IL-25 overexpressed A549 cells and IL-25 silenced A549/CDDP cells. B, The effect of exogenous IL-25 on the activity of NF-κB signaling pathway in A549 cells. C, QNZ blocks the effect of exogenous IL-25 on the expression of major vault protein (MVP) and the activity of NF-κB signaling pathway in A549 cells. *p < 0.01 vs indicated controls, all figures represent the average of three sets of independent experiments

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