abcam

Product datasheet

Anti-MVP antibody [EPR13227(B)] ab175239

敲除验证 重组 RabMAb

6 References 12 图像

概述

产品名称	Anti-MVP抗体[EPR13227(B)]
描述	兔单克隆抗体[EPR13227(B)] to MVP
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, ICC/IF, IHC-P
种属反应性	**与反应:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: A549, Calu-3,Caco-2 and HeLa whole cell lysate (**ab150035**). IHC-P: Human colon and human pancreas tissues. ICC/IF: A549 and HeLa cells. Flow Cyt (intra): A549 cells.
常规说明	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR13227(B)

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab175239于以下的经测试应用**

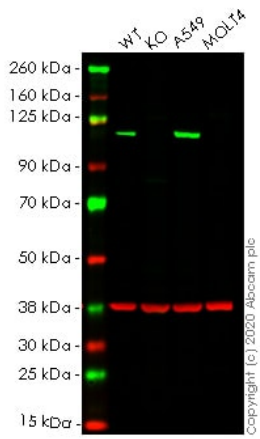
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/100 - 1/500. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/2000. Detects a band of approximately 110 kDa (predicted molecular weight: 99 kDa). **For unpurified use at 1/10000 - 1/50000.**
ICC/IF		1/150 - 1/500.
IHC-P		1/50 - 1/350. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.

靶标

功能	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 INFG-mediated STAT1 signaling and subsequent activation of JAK. Down-regulates SRC activity and signaling through MAP kinases.
组织特异性	Present in most normal tissues. Higher expression observed in epithelial cells with secretory and excretory functions, as well as in cells chronically exposed to xenobiotics, such as bronchial cells and cells lining the intestine. Overexpressed in many multidrug-resistant cancer cells.
序列相似性	Contains 9 MVP (vault) repeats.
结构域	MVP 3 mediates interaction with PTEN. MVP 4 mediates interaction with PARP4.
翻译后修饰	Phosphorylated on Tyr residues after EGF stimulation. Dephosphorylated by PTPN11.
细胞定位	Cytoplasm. Nucleus > nuclear pore complex. 5% found in the nuclear pore complex. Translocates from the nucleus to the cytoplasm upon EGF treatment.

图片



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

All lanes : Anti-MVP antibody [EPR13227(B)] (ab175239) at 1/2000 dilution

Lane 1 : Wild-type HeLa lysate
Lane 2 : MVP knockout HeLa lysate
Lane 3 : A549 lysate
Lane 4 : MOLT-4 lysate

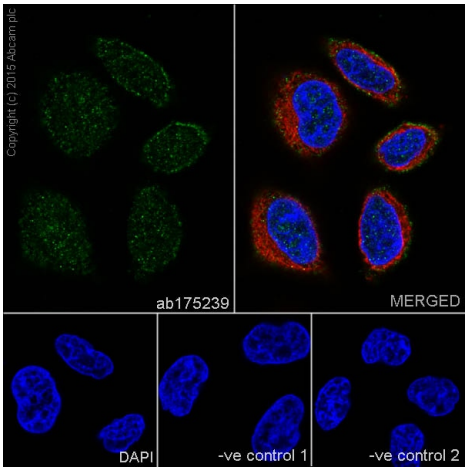
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 99 kDa

Lanes 1-4: Merged signal (red and green). Green - ab175239 observed at 110 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab175239 Anti-MVP antibody [EPR13227(B)] was shown to specifically react with MVP in wild-type HeLa cells. 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 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.

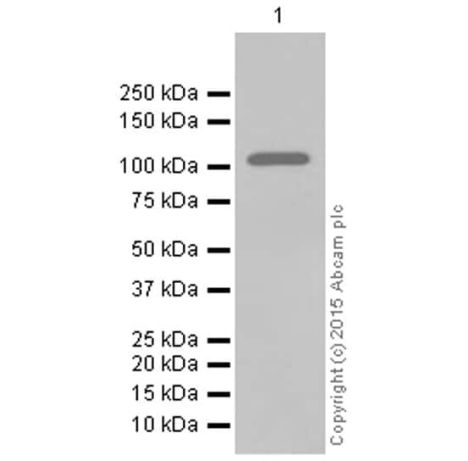


Immunocytochemistry/ Immunofluorescence - Anti-MVP antibody [EPR13227(B)] (ab175239)

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).



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

Anti-MVP antibody [EPR13227(B)] (ab175239) at 1/2000 dilution (purified) + Caco-2 whole cell lysate at 20 µg

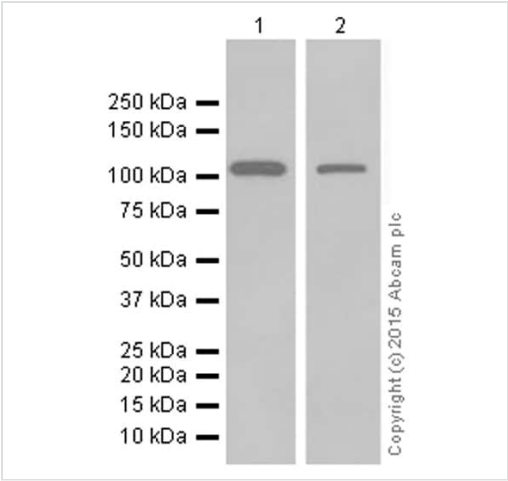
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 99 kDa

Observed band size: 110 kDa

Blocking and dilution buffer: 5% NFDM/TBST



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

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

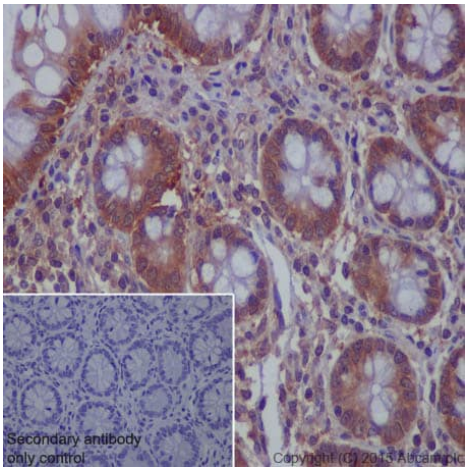
Lane 1 : Calu-3 whole cell lysate
Lane 2 : A549 whole cell lysate

Lysates/proteins at 20 µg per lane.

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

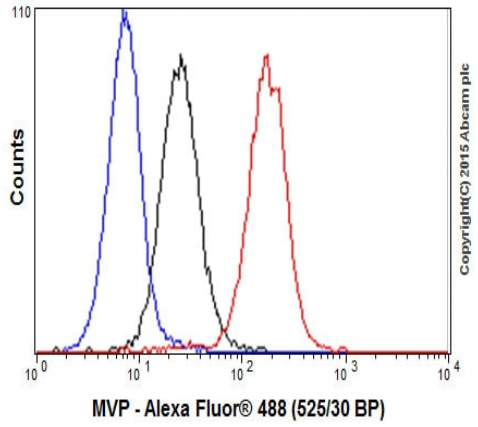
Predicted band size: 99 kDa
Observed band size: 110 kDa

Blocking and dilution buffer: 5% NFDM/TBST



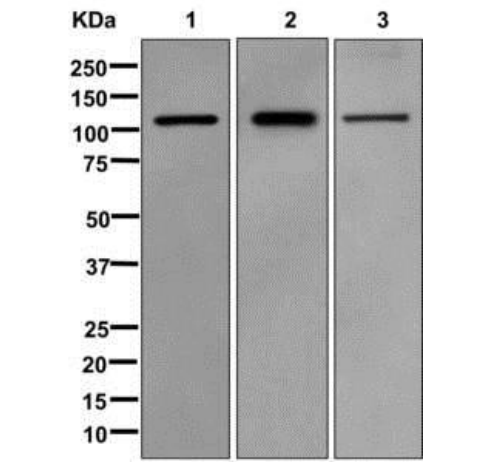
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR13227(B)] (ab175239)

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.



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

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.



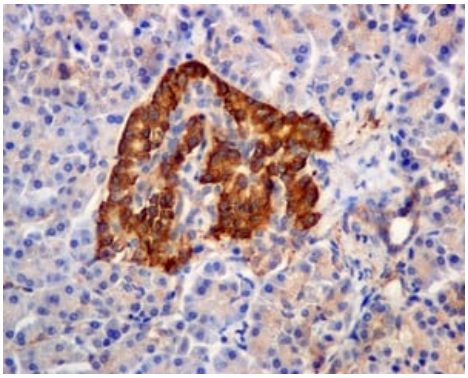
Western blot - Anti-MVP antibody [EPR13227(B)] (ab175239)

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

Lane 1 : A549 cell lysate
Lane 2 : Calu-3 cell lysate
Lane 3 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

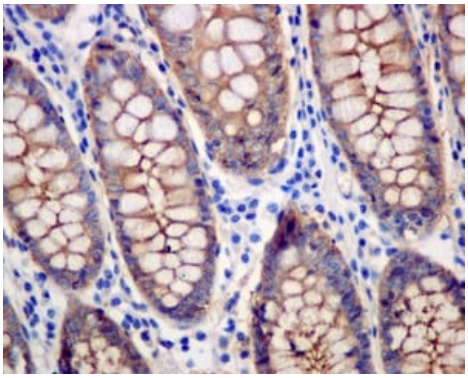
Predicted band size: 99 kDa
Additional bands at: 110 kDa. We are unsure as to the identity of these extra bands.



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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human pancreas tissue labeling MVP with unpurified ab175239 at a dilution of 1/50.

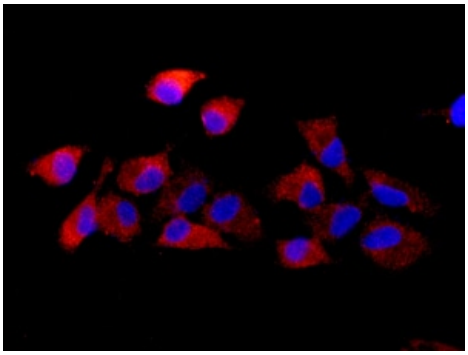
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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

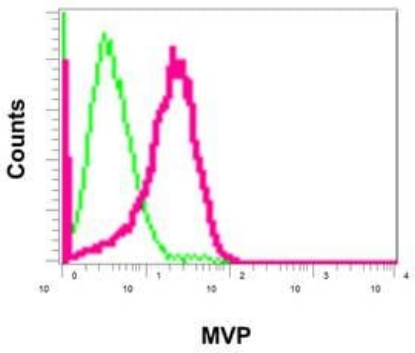
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labeling MVP with unpurified ab175239 at a dilution of 1/50.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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

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



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

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).

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

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