abcam

Product datasheet

Anti-MVP antibody [EPR23594-106] ab273093

敲除验证 重组 RabMAb

1 References 11 图像

概述

产品名称	Anti-MVP抗体[EPR23594-106]
描述	兔单克隆抗体[EPR23594-106] to MVP
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IHC-P, ICC/IF **不适用于:** IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: A549, A431, Caco-2, HeLa treated with 100U/ml IFN gamma for 24 hours, whole, RAW 264.7, NIH/3T3, C6 and PC-12 whole cell lysate. Human colon, lung and kidney tissue lysate. Mouse colon and kidney tissue lysate. IHC-P: Human cerebrum tissue. Human lung cancer and ovary cancer tissue. ICC/IF: A549 and NIH/3T3 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**.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号	EPR23594-106
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab273093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)		1/50.
WB		1/1000. Predicted molecular weight: 99 kDa.
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/50.

应用说明 Is unsuitable for IP.

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.

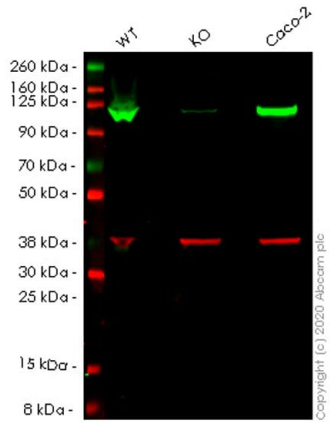
序列相似性 Contains 9 MVP (vault) repeats.

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 [EPR23594-106] (ab273093)

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

Lane 1 : Wild-type HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with Intercept® (TBS) Blocking Buffer diluted with an equal volume of 0.1% TBS
Lane 2 : MVP knockout HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with Intercept® (TBS) Blocking Buffer diluted with an equal volume of 0.1% TBS
Lane 3 : Caco-2 (human colorectal adenocarcinoma epithelial cell) whole cell lysate with Intercept® (TBS) Blocking Buffer diluted with an equal volume of 0.1% TBS

Lysates/proteins at 20 µg per lane.

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

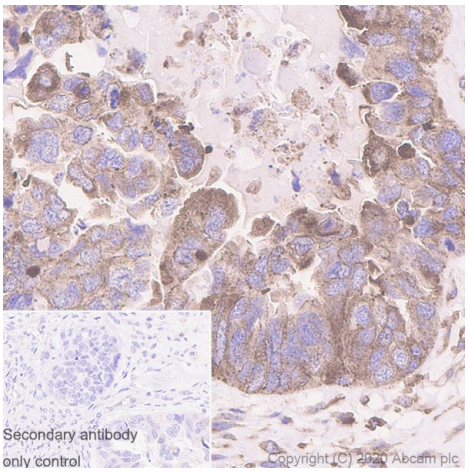
Predicted band size: 99 kDa
Observed band size: 110 kDa

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.

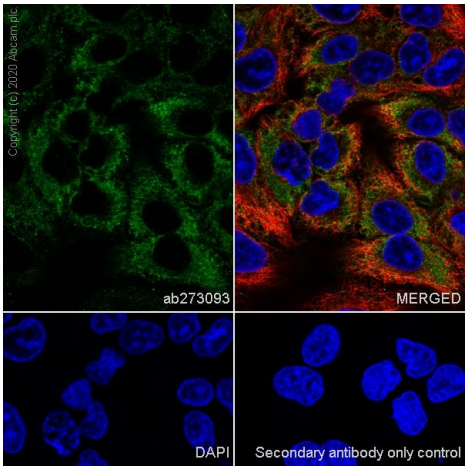


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR23594-106] (ab273093)

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).

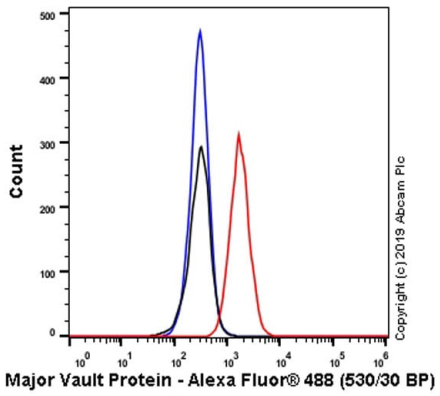
Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).



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

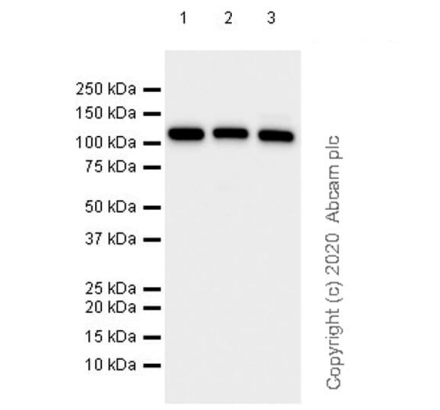
Immunofluorescent analysis of 100% methanol-fixed, 0.1% Triton X-100 permeabilized A549 cells labelling MVP with ab273093 at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing cytoplasmic staining in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



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

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.



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

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

Lane 1 : Human colon tissue lysate
Lane 2 : Human lung tissue lysate
Lane 3 : Human kidney tissue lysate

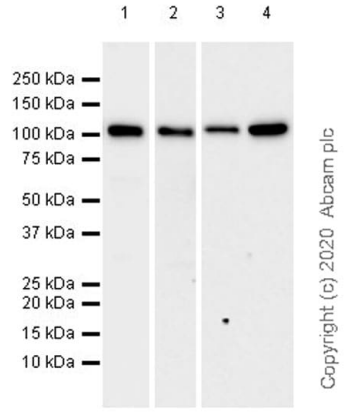
Lysates/proteins at 20 µg per lane.

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

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

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

Exposure time: 10 seconds.



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

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

Lane 1 : Mouse colon tissue lysate
Lane 2 : Mouse kidney tissue lysate
Lane 3 : C6 (rat glial tumor glial cell) whole cell lysate
Lane 4 : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate

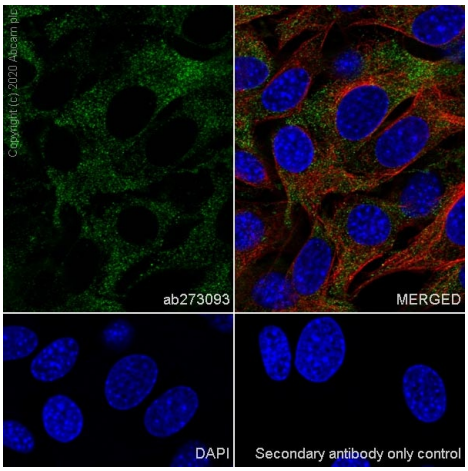
Lysates/proteins at 20 µg per lane.

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

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

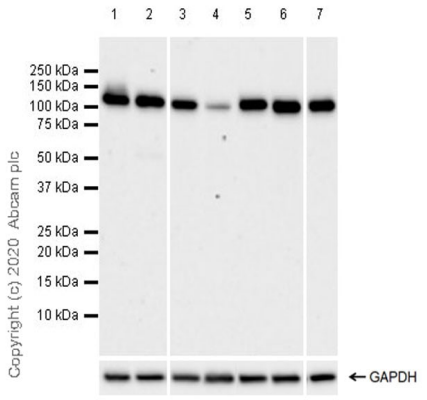
Exposure time: Lane 1: 26 seconds; Lane 2-4: 70 seconds.



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

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)

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

Lane 1 : A549 (human lung carcinoma epithelial cell) whole cell lysate
Lane 2 : A431 (human epidermoid carcinoma epithelial cell) whole cell lysate
Lane 3 : Caco-2 (human colorectal adenocarcinoma epithelial cell) whole cell lysate
Lane 4 : Untreated HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 5 : HeLa treated with 100U/ml IFN gamma for 24 hours, whole cell lysate
Lane 6 : RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate
Lane 7 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

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

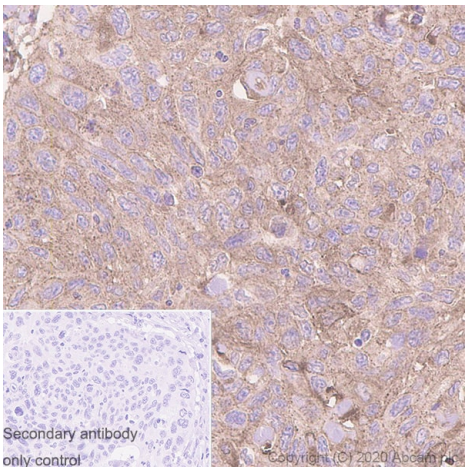
Predicted band size: 99 kDa
Observed band size: 110 kDa

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.

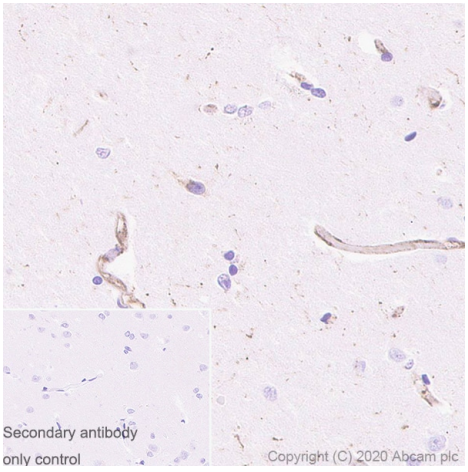


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR23594-106] (ab273093)

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).



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).

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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors