abcam

Product datasheet

Anti-MVP antibody [EPR13227(B)] - BSA and Azide free ab240184

Recombinant RabMAb

7 Images

Overview

Product name	Anti-MVP antibody [EPR13227(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR13227(B)] to MVP - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, Flow Cyt, ICC/IF, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human MVP aa 850 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: Q14764
General notes	ab240184 is the carrier-free version of ab175239 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. Ab240184 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *Maxpar® is a trademark of Fluidigm Canada Inc.* Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. 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.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13227(B)
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab240184** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

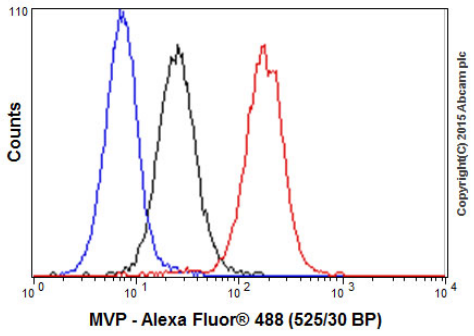
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols.
Flow Cyt		Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 110 kDa (predicted molecular weight: 99 kDa).

Target

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 INFG-mediated STAT1 signaling and subsequent activation of JAK. Down-regulates SRC activity and signaling through MAP kinases.
Tissue specificity	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.
Sequence similarities	Contains 9 MVP (vault) repeats.
Domain	MVP 3 mediates interaction with PTEN. MVP 4 mediates interaction with PARP4.
Post-translational modifications	Phosphorylated on Tyr residues after EGF stimulation. Dephosphorylated by PTPN11.
Cellular localization	Cytoplasm. Nucleus > nuclear pore complex. 5% found in the nuclear pore complex. Translocates

from the nucleus to the cytoplasm upon EGF treatment.

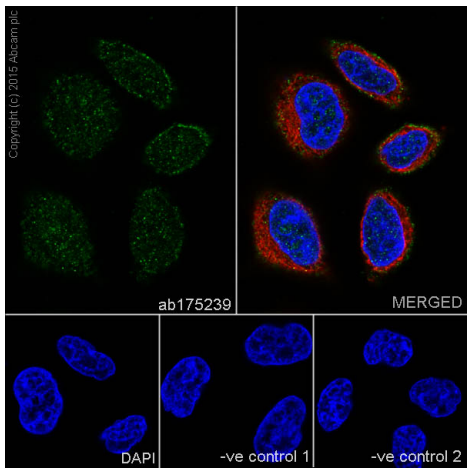
Images



Flow Cytometry - Anti-MVP antibody [EPR13227(B)] - BSA and Azide free (ab240184)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab175239).



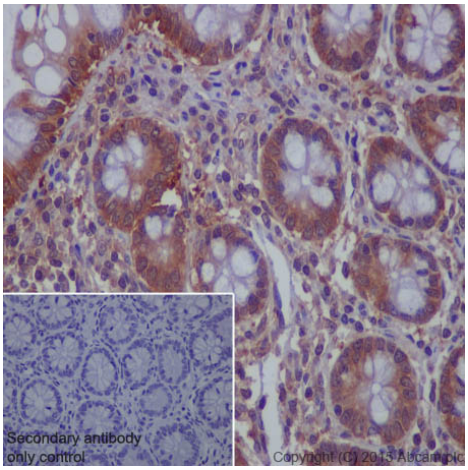
Immunocytochemistry/ Immunofluorescence - Anti-MVP antibody [EPR13227(B)] - BSA and Azide free (ab240184)

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).

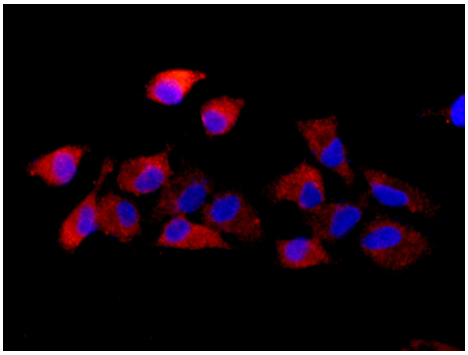
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab175239).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR13227(B)] - BSA and Azide free (ab240184)

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.

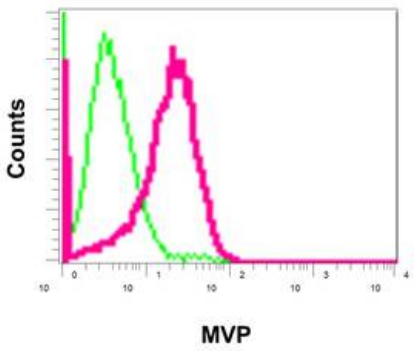
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab175239).



Immunocytochemistry/ Immunofluorescence - Anti-MVP antibody [EPR13227(B)] - BSA and Azide free (ab240184)

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

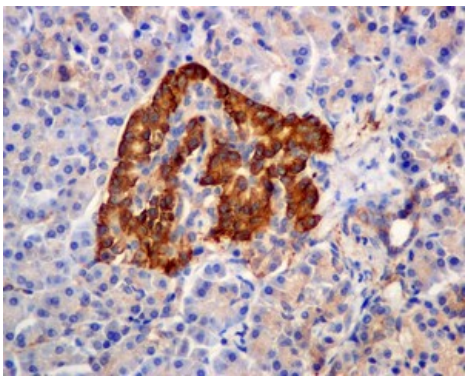
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab175239).



Flow Cytometry - Anti-MVP antibody [EPR13227(B)] - BSA and Azide free (ab240184)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab175239).

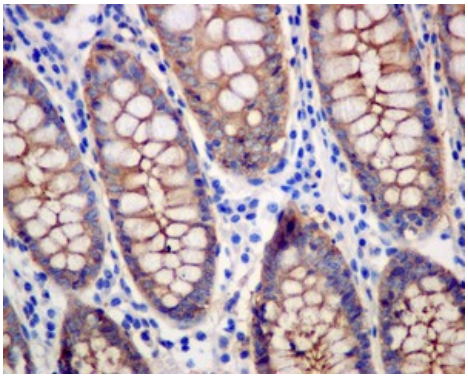


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR13227(B)] - BSA and Azide free (ab240184)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab175239).

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MVP antibody [EPR13227(B)] - BSA and Azide free (ab240184)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab175239).

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

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