

Product datasheet

Anti-PLVAP/PV-1 antibody [MECA-32] - BSA and Azide free ab256145

Recombinant

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Overview

Product name	Anti-PLVAP/PV-1 antibody [MECA-32] - BSA and Azide free
Description	Rat monoclonal [MECA-32] to PLVAP/PV-1 - BSA and Azide free
Host species	Rat
Tested applications	Suitable for: Flow Cyt, IHC-Fr, ICC/IF
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to Mouse PLVAP/PV-1. Mouse lymph node stromal cells
Positive control	ICC/IF and Flow Cyt: bEND.3 cells; IHC-Fr: Mouse large intestine tissue.
General notes	<p>ab256145 is the carrier-free version of ab27853.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>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.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Ion Exchange Chromatography
Clonality	Monoclonal
Clone number	MECA-32
Isotype	IgG2a

Applications

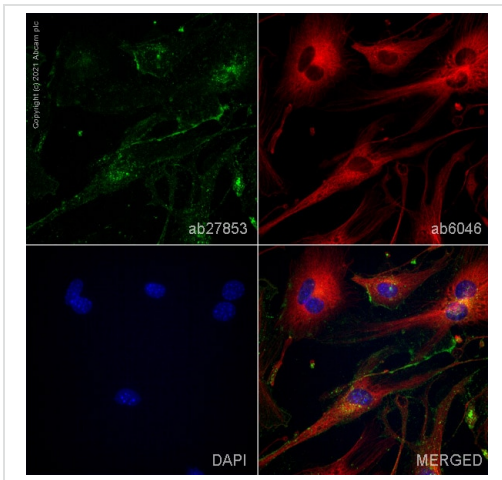
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab256145 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Target

Function	Involved in the formation of stomatal and fenestral diaphragms of caveolae. May function in microvascular permeability.
Tissue specificity	Expressed in lung, kidney, heart, aorta, placenta, muscle, pituitary gland, adrenals, mammary gland, bladder, lymph node, bone marrow, trachea, digestive tract, liver and tumor-associated endothelium.
Cellular localization	Cell membrane. Membrane > caveola. Cytoplasm > perinuclear region. Membrane-associated protein of caveolae. Found in fenestral and stomatal diaphragms in fenestrated endothelia and transendothelial channels. Also colocalized with CAV1 in perinuclear region.

Images

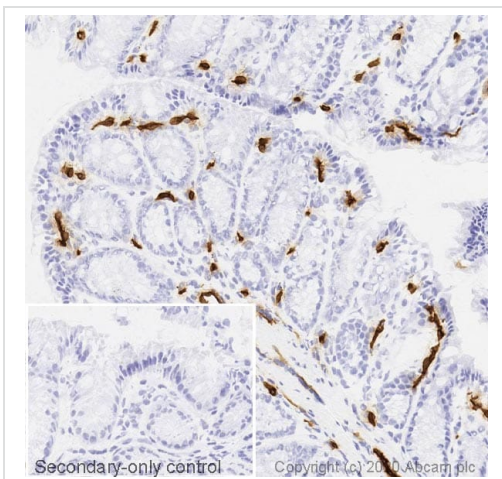


Immunocytochemistry/ Immunofluorescence - Anti-PLVAP/PV-1 antibody [MECA-32] - BSA and Azide free (ab256145)

This data was developed using **ab27853**, the same antibody clone in a different buffer formulation.

ab27853 staining PLVAP/PV-1 in b.End3 cells. The cells were fixed with 4% paraformaldehyde (10 minutes), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1 hour. The cells were then incubated overnight at 4°C with **ab27853** at 2 µg/mL and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150165**, Goat polyclonal Secondary Antibody to Rat IgG - H&L (Alexa Fluor® 488), pre-absorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue). Also suitable in cells fixed with 100% methanol (5 minutes).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.

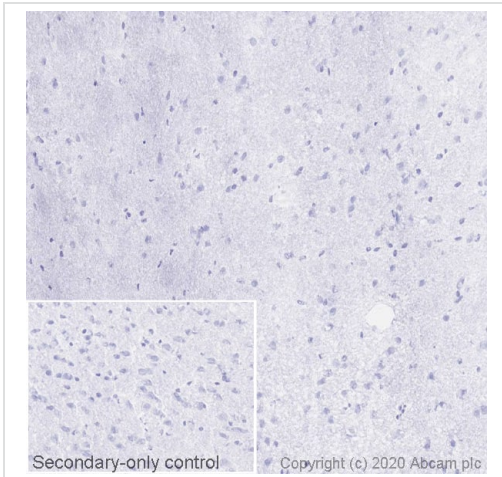


Immunohistochemistry (Frozen sections) - Anti-PLVAP/PV-1 antibody [MECA-32] - BSA and Azide free (ab256145)

This data was developed using **ab27853**, the same antibody clone in a different buffer formulation.

IHC image of PLVAP/PV-1 staining in a section of frozen normal mouse large intestine performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with **ab27853**, 1 µg/mL, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

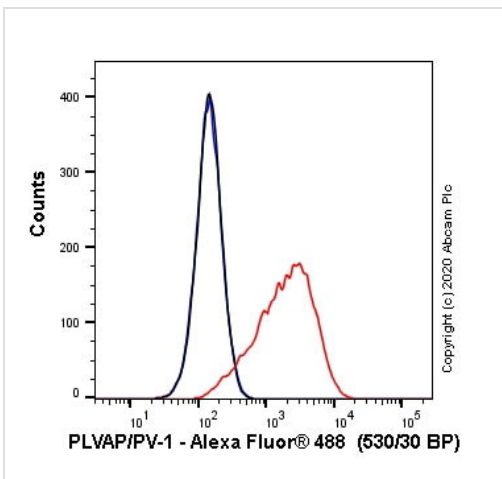


Immunohistochemistry (Frozen sections) - Anti-PLVAP/PV-1 antibody [MECA-32] - BSA and Azide free (ab256145)

This data was developed using **ab27853**, the same antibody clone in a different buffer formulation.

IHC image of PLVAP/PV-1 staining in a section of frozen normal mouse brain performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with **ab27853**, 1 µg/mL, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody. Mouse brain tissue is a negative control tissue, showing no staining of the primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Flow Cytometry - Anti-PLVAP/PV-1 antibody [MECA-32] - BSA and Azide free (ab256145)

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Flow cytometry overlay histogram showing bEND.3 (mouse brain endothelioma cell line) cells stained with **ab27853** (red line). The cells were incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (**ab27853**) (1×10^6 in 100 µL at 1 µg/mL) for 30 min on ice. The secondary antibody Goat anti-rat IgG H&L (Alexa Fluor® 488, pre-adsorbed) (**ab150165**) was used at 1/2000 for 30 min on ice.

Isotype control antibody (black line) was Rat IgG2aκ (**ab18450**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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

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