abcam

Product datasheet

Anti-VE Cadherin antibody [EPR18229] - BSA and Azide free ab232515

Recombinant RabMAb

1 References 4 Images

Overview

Product name	Anti-VE Cadherin antibody [EPR18229] - BSA and Azide free
Description	Rabbit monoclonal [EPR18229] to VE Cadherin - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IP, WB
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: bEnd.3 cells.
General notes	ab232515 is the carrier-free version of **ab205336**. 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. 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. 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. 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. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18229
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232515 in the following tested applications.

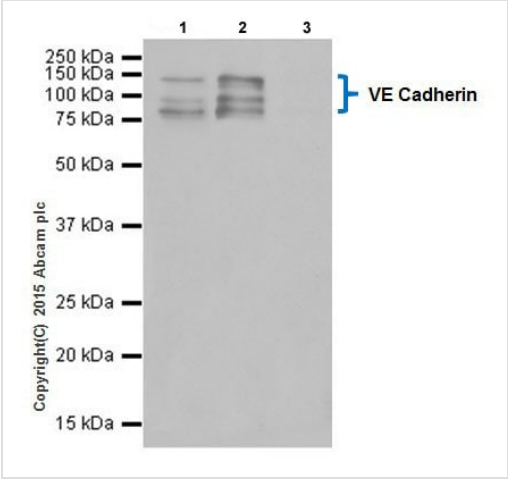
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 125, 90 kDa (predicted molecular weight: 88 kDa).

Target

Function	Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. This cadherin may play a important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. It associates with alpha-catenin forming a link to the cytoskeleton.
Tissue specificity	Endothelial tissues and brain.
Sequence similarities	Contains 5 cadherin domains.
Post-translational modifications	Phosphorylated on tyrosine residues by KDR/VEGFR-2. Dephosphorylated by PTPRB.
Cellular localization	Cell junction. Cell membrane. Found at cell-cell boundaries and probably at cell-matrix boundaries.

Images



Immunoprecipitation - Anti-VE Cadherin antibody [EPR18229] - BSA and Azide free (ab232515)

VE Cadherin was immunoprecipitated from 1mg of Mouse lung whole cell lysate with **ab205336** at 1/80 dilution.

Western blot was performed from the immunoprecipitate using **ab205336** at 1/1000 dilution.

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500.

Lane 1: Mouse lung whole cell lysate 10ug (Input).

Lane 2: **ab205336** IP in Mouse lung whole cell lysate.

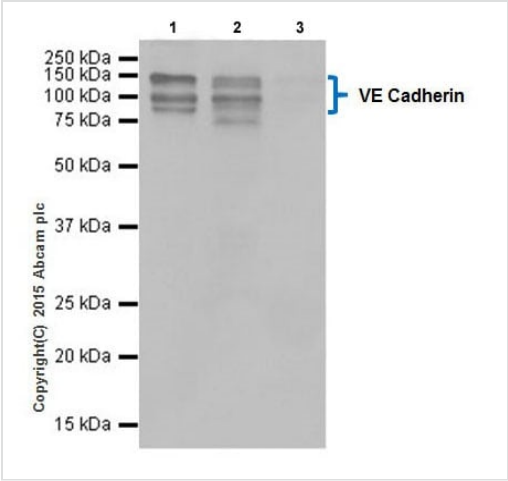
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab205336** in Mouse lung whole cell lysate.

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

Exposure time: 1 second.

Due to a high degree of glycosylation and phosphorylation, the observed MW is higher than the predicted MW. The 90kDa fragment represents the extracellular domain where the immunogen is located.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205336**).



Immunoprecipitation - Anti-VE Cadherin antibody [EPR18229] - BSA and Azide free (ab232515)

VE Cadherin was immunoprecipitated from 1mg of bEnd.3 (Mouse brain microvascular endothelial cell line) whole cell lysate with **ab205336** at 1/80 dilution.

Western blot was performed from the immunoprecipitate using **ab205336** at 1/1000 dilution.

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500.

Lane 1: bEnd.3 whole cell lysate 10ug (Input).

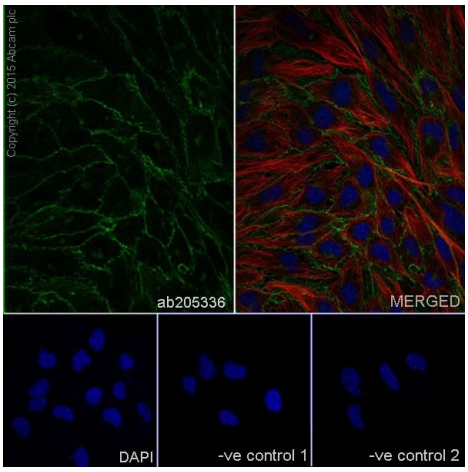
Lane 2: **ab205336** IP in bEnd.3 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab205336** in bEnd.3 whole cell lysate.

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

Exposure time: 5 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205336**).



Immunocytochemistry/ Immunofluorescence - Anti-VE Cadherin antibody [EPR18229] - BSA and Azide free (ab232515)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized bEnd.3 (Mouse brain microvascular endothelial cell line) cells labeling VE Cadherin with **ab205336** at 1/1000 dilution, followed by Goat anti-rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green).

Confocal image showing membrane staining on bEnd.3 cell line.

The nuclear counterstain is DAPI (blue).

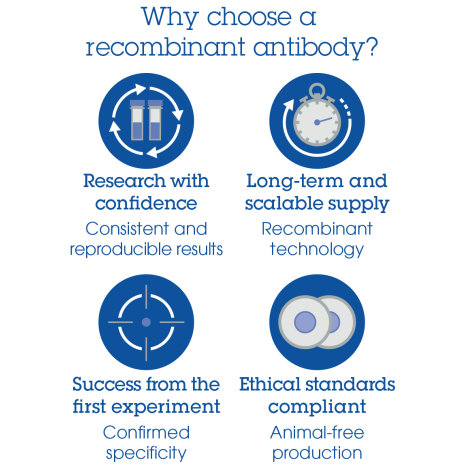
Tubulin is detected with Anti-alpha Tubulin antibody -Loading control (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (AlexaFluor®594) preadsorbed (**ab150120**) at 1/500 dilution (red).

The negative controls are as follows:-

-ve control 1: **ab205336** at 1/1000 dilution followed by **ab150120** at 1/500 dilution.

-ve control 2: **ab7291** at 1/1000 dilution followed by **ab150077** at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205336**).



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