abcam

Product datasheet

Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker ab205336

重组 RabMAb

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概述

产品名称	Anti-VE Cadherin抗体[EPR18229] - Intercellular Junction Marker
描述	兔单克隆抗体[EPR18229] to VE Cadherin - Intercellular Junction Marker
宿主	Rabbit
经测试应用	**适用于:** WB, ICC/IF, IP
种属反应性	**与反应:** Mouse
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Mouse lung, placenta, heart, kidney and spleen lysates; bEnd.3 whole cell lysate. ICC/IF: bEnd.3 cells. IP: Mouse lung whole cell lysate; bEnd.3 whole cell lysate.
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: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR18229

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab205336于以下的经测试应用**

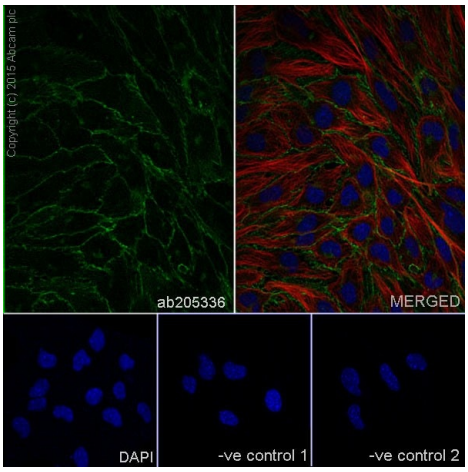
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 125, 90 kDa (predicted molecular weight: 88 kDa).
ICC/IF	★★★★★ (1)	1/1000.
IP		1/80.

靶标

功能	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.
组织特异性	Endothelial tissues and brain.
序列相似性	Contains 5 cadherin domains.
翻译后修饰	Phosphorylated on tyrosine residues by KDR/VEGFR-2. Dephosphorylated by PTPRB.
细胞定位	Cell junction. Cell membrane. Found at cell-cell boundaries and probably at cell-matrix boundaries.

图片



Immunocytochemistry/ Immunofluorescence - Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker (ab205336)

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.

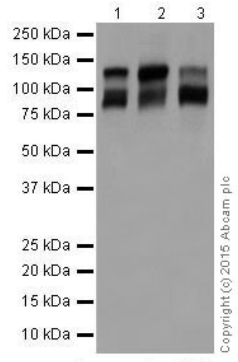
The nuclear counterstain is DAPI (blue).

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.



Western blot - Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker (ab205336)

All lanes : Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker (ab205336) at 1/1000 dilution

Lane 1 : Mouse lung lysate
Lane 2 : Mouse placenta lysate
Lane 3 : bEnd.3 (Mouse brain microvascular endothelial cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

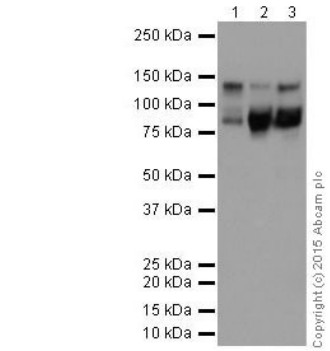
Predicted band size: 88 kDa
Observed band size: 125,90 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.

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.



Western blot - Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker (ab205336)

All lanes : Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker (ab205336) at 1/1000 dilution

Lane 1 : Mouse heart lysate
Lane 2 : Mouse kidney lysate
Lane 3 : Mouse spleen lysate

Lysates/proteins at 10 µg per lane.

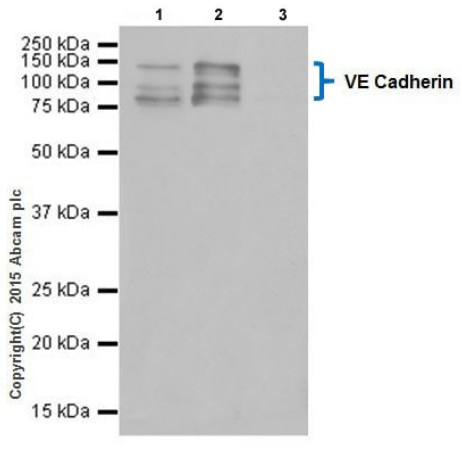
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 88 kDa
Observed band size: 120,90 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.

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.



Immunoprecipitation - Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker (ab205336)

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).

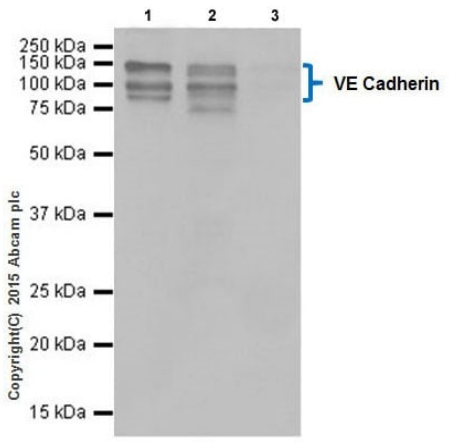
Lane 2: ab205336 IP in Mouse lung whole cell lysate.

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.



Immunoprecipitation - Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker (ab205336)

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.

Anti-VE Cadherin antibody [EPR18229] - Intercellular Junction Marker (ab205336)

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