abcam

Product datasheet

Anti-VE Cadherin antibody - Intercellular Junction Marker ab33168

40 Abreviews 312 References 9 图像

概述

产品名称	Anti-VE Cadherin**抗体**- Intercellular Junction Marker
描述	**兔多克隆抗体**to VE Cadherin - Intercellular Junction Marker
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, WB
种属反应性	**与反应:** Mouse, Human **预测可用于:** Chicken, Cow, Pig
免疫原	Synthetic peptide corresponding to Human VE Cadherin aa 750 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as **ab27462**)
阳性对照	ICC/IF: HUVEC cells. WB: HUVEC cell lysate and Mouse lung tissue lysate.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS 1x PBS Batches which are <1mg/ml will contain 1% BSA, batches at 1mg/ml will not.
纯度	Immunogen affinity purified

克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab33168于以下的经测试应用**

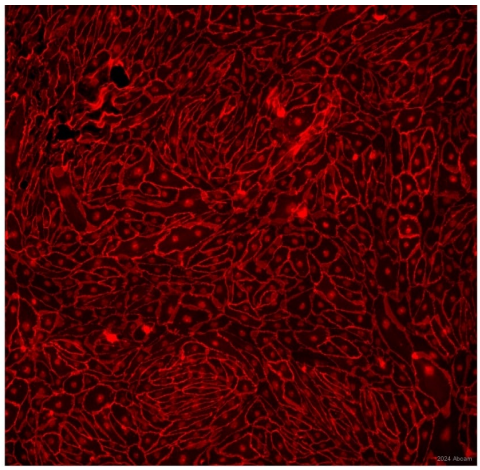
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★☆ (18)	Use a concentration of 0.1 - 1 µg/ml. Abcam recommends using this product with confluent cells.
WB	★★★★★ (9)	Use a concentration of 1 µg/ml. Detects a band of approximately 115,117,120 kDa (predicted molecular weight: 88 kDa). Abcam recommends using BSA blocking with this product. Milk blocking will give a greatly reduced signal strength in WB.

靶标

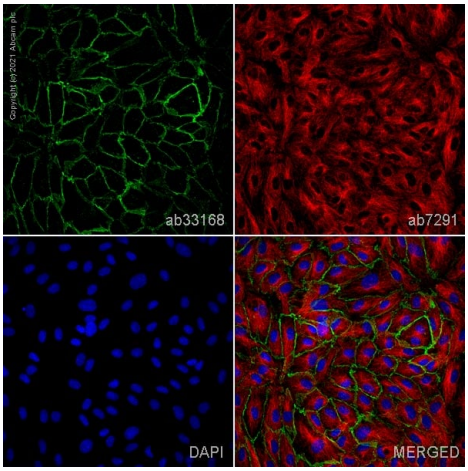
功能	Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. This cadherin may play a important role in endothelial cell biology through control 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



Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

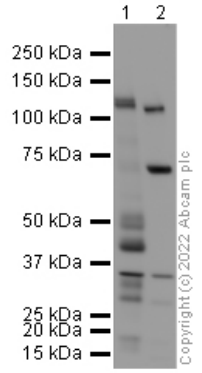
This image is courtesy of an Abreview submitted by Simon Shen



Immunocytochemistry/ Immunofluorescence - Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

ab33168 staining VE Cadherin in HUV-EC cells. The cells were fixed with 100% methanol (5 min), 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 1h. The cells were then incubated overnight at 4°C with ab33168 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

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



Western blot - Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

All lanes : Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168) at 1 µg/ml

Lane 1 : HUVEC (Human Umbilical Vein Endothelial Cell) Whole Cell Lysate
Lane 2 : Mouse lung tissue lysate

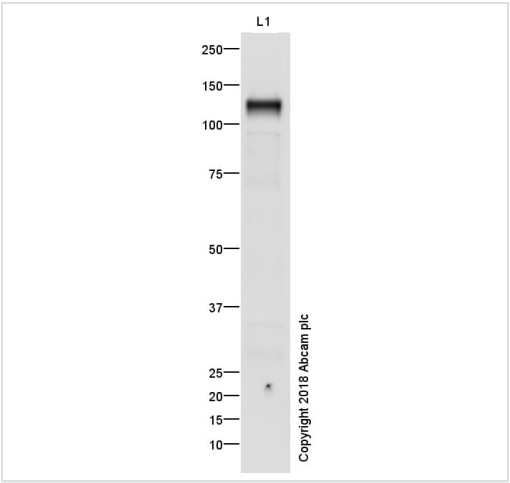
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Predicted band size: 88 kDa
Observed band size: 120 kDa
Additional bands at: 70 kDa (possible non-specific binding)

Exposure time: 1 minute

Gel type: MOPS
Blocking buffer: 2% BSA



Western blot - Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168) at 1 µg/ml + HUVEC Cell Lysate at 10 µg

Secondary
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Developed using the ECL technique.

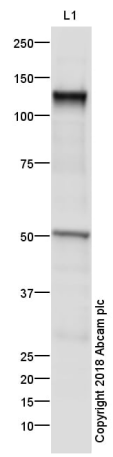
Performed under reducing conditions.

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

Exposure time: 1 minute

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab33168 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.

The band we observe at 115 kDa is believed to be the glycosylated form of the protein.



Western blot - Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168) at 1 µg/ml + HUVEC Cell Lysate at 10 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Developed using the ECL technique.

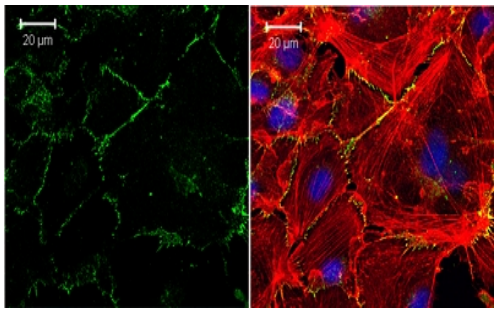
Performed under reducing conditions.

Predicted band size: 88 kDa
Observed band size: 120 kDa
Additional bands at: 55 kDa (possible non-specific binding)

Exposure time: 1 minute

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab33168 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.

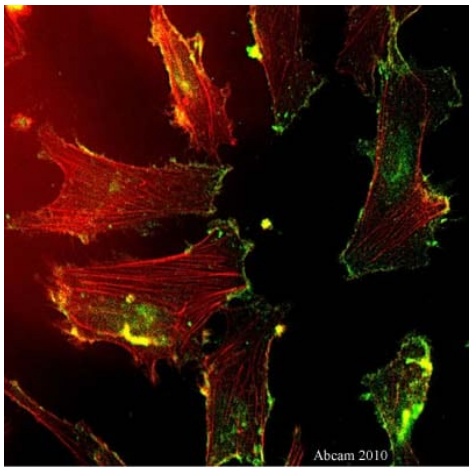
The band we observe at 115 kDa is believed to be the glycosylated form of the protein.



Immunocytochemistry/ Immunofluorescence - Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

This image is courtesy of Stephen Yarwood, Inst Mol, Cell and Sys Bio, United Kingdom

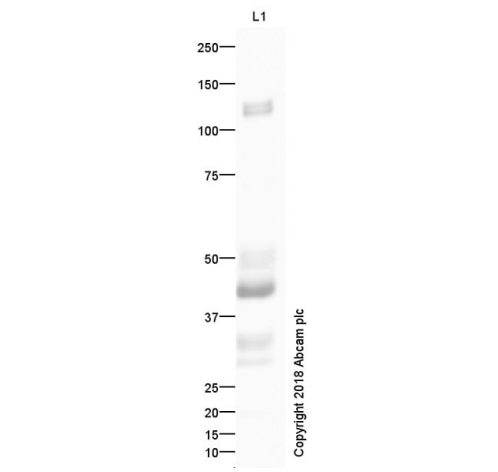
ICC/IF image of VE-Cadherin staining on HUVEC cells using ab33168. The cells were incubated with the primary antibody (ab33168) and the secondary was FITC conjugated anti-rabbit used at 1:400. The cells were incubated with only the secondary antibody as a negative control.



Immunocytochemistry/ Immunofluorescence - Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

This image is courtesy of Ana Kasirer-Friede, Univ California-San Diego, Dept. Of Medicine, United States

ICC/IF image of VE Cadherin stained HUVEC cells. The cells were incubated with the antibody ab33168 at 1/150 (Green). The cells were also stained with Rhodamine phalloidin (Red).



Western blot - Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168) at 1 µg/ml + HUVEC Cell Lysate at 10 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Developed using the ECL technique.

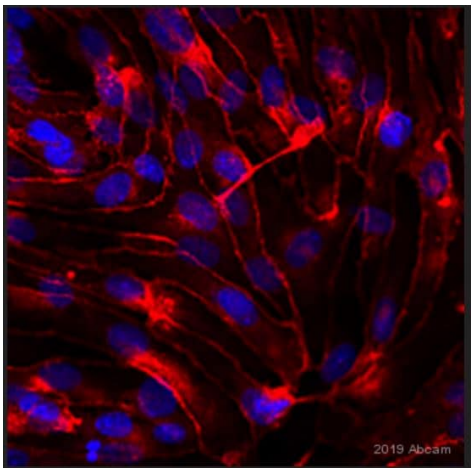
Performed under reducing conditions.

Predicted band size: 88 kDa
Observed band size: 115,117 kDa
Additional bands at: 45 kDa (possible non-specific binding)

Exposure time: 1 minute

The observed band for Cadherin 5 has a higher molecular weight of 115kDa due to glycosylation of the protein.

The immunogen used to raise this antibody has 89% homology with Cadherin 18, 88kDa , which we believe is the additional observed band at 117kDa, again due to glycosylation of the protein.



Immunocytochemistry/ Immunofluorescence - Anti-VE Cadherin antibody - Intercellular Junction Marker (ab33168)

This image is courtesy of an Abreview submitted by Kara Shumansky

ab33168 staining VE Cadherin in the endothelial cell line from Human liver by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with Paraformaldehyde. Samples were incubated with primary antibody (1/100 in PBS + 2.5% BSA + 0.1% triton) for 1 hour at 37°C. Alexa Fluor 594 Chicken anti-Rabbit IgG (H+L) Cross-Adsorbed Secon was used as the secondary antibody at 4 µg/ml.

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