

Product datasheet

Anti-VE Cadherin antibody [3D5C7] ab166715

4 References 3 Images

Overview

<b>Product name</b>	Anti-VE Cadherin antibody [3D5C7]
<b>Description</b>	Mouse monoclonal [3D5C7] to VE Cadherin
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	Purified recombinant fragment, corresponding to amino acids 29-223 of Human VE Cadherin, expressed in <i>E.coli</i> . <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human recombinant VE Cadherin protein; MCF7, A549 and HUVE-12 cell lysates; rat lung lysate; Jurkat cells.
<b>General notes</b>	This product was changed from ascites to supernatant. Lot no's high than GR268881-11 are from Tissue Culture Supernatant

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituent: 99% PBS  Contains 0.5% protein stabilizer(Amino acid =85% pH(1% water solution) =7.0~7.5 Water =2% As(mg/kg) . =0.5 Pb(mg/kg) . =0.1 Thick degree of usage of validity . 0.05%~0.15% Usage temperature scope <63? Appearance White or light yellow powder.
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3D5C7
<b>Isotype</b>	IgG1

## Applications

Our [Abpromise guarantee](#) covers the use of **ab166715** 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
WB		1/500 - 1/2000. Predicted molecular weight: 88 kDa.
Flow Cyt		1/200 - 1/400. <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## 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.

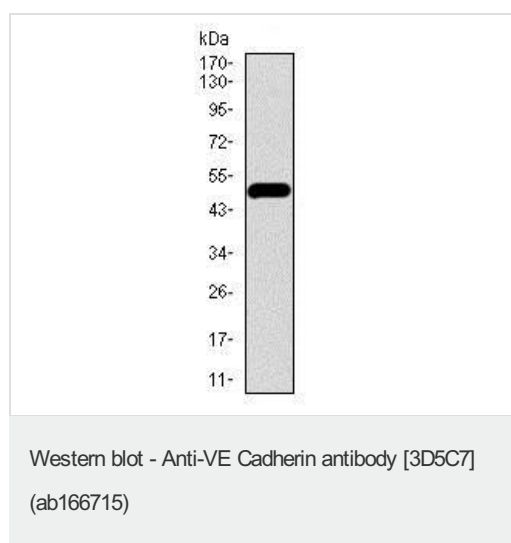
### Post-translational modifications

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.

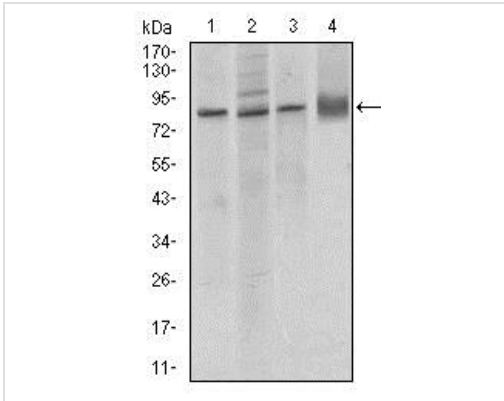
## Images



Anti-VE Cadherin antibody [3D5C7] (ab166715) at 1/500 dilution + Recombinant Human VE Cadherin protein - The recombinant protein is a fragment: AA: 29-223 containing a His-tag.

**Predicted band size:** 88 kDa

Expected MWt is 47.6 kDa



Western blot - Anti-VE Cadherin antibody [3D5C7]  
(ab166715)

**All lanes :** Anti-VE Cadherin antibody [3D5C7] (ab166715) at 1/500 dilution

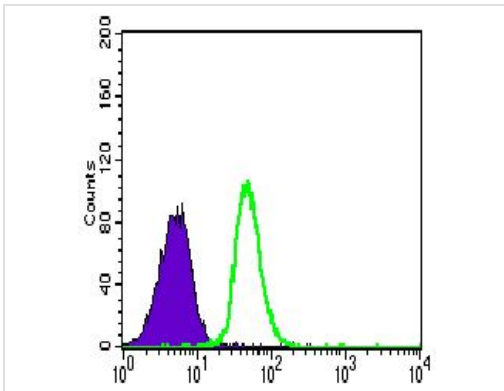
**Lane 1 :** MCF7 cell lysate

**Lane 2 :** A549 cell lysate

**Lane 3 :** HUVE-12 cell lysate

**Lane 4 :** Rat lung tissue lysate

**Predicted band size:** 88 kDa



Flow Cytometry - Anti-VE Cadherin antibody  
[3D5C7] (ab166715)

Flow cytometry analysis of Jurkat cells labeling ab166715 at 1/200 dilution (green) compared to a negative control (purple).

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