BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-VE-Cadherin CDH5-Antibody Picoband®

Catalog Number: PA2079

About CDH5

CDH5 (Cadherin 5), also known as VE-cadherin, is a type of cadherin. It is encoded by the human gene CDH5. Kremmidiotis et al. (1998) mapped the human CDH5 gene to 16q22.1 using somatic cell hybrid panels. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. Therefore it was concluded that VE-cadherin serves the purpose of maintaining newly formed vessels.

Submit a product review to Biocompare.com





Submit a review of this product to Biocompare.com to receive a $20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Overview

Product Name	Anti-VE-Cadherin CDH5-Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-VE-Cadherin CDH5-Antibody catalog # PA2079. Tested in ICC/IF, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P33151

Technical Details

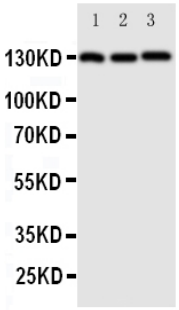
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human VE Cadherin, different from the related mouse and rat sequences by three amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

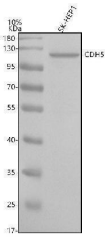
	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, Mouse, Rat

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

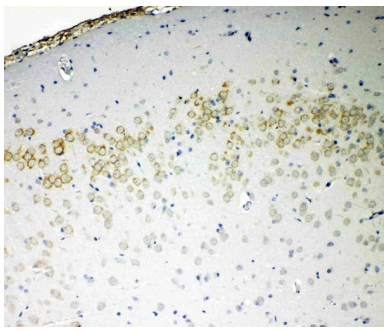
Anti-VE-Cadherin CDH5-Antibody Picoband® (PA2079) Images



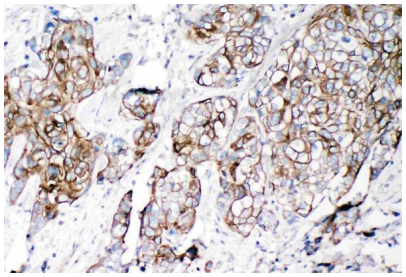
Anti-VE Cadherin antibody, PA2079, Western blottingAll lanes: Anti VE Cadherin (PA2079) at 0.5ug/ml Lane 1: A549 Whole Cell Lysate at 40ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 87KD Observed bind size: 130KD



Western blot analysis of CDH5 using anti-CDH5 antibody (PA2079). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SK-HEP1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CDH5 antigen affinity purified polyclonal antibody (PA2079) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for CDH5 at approximately 120 kDa. The expected band size for CDH5 is at 88 kDa.

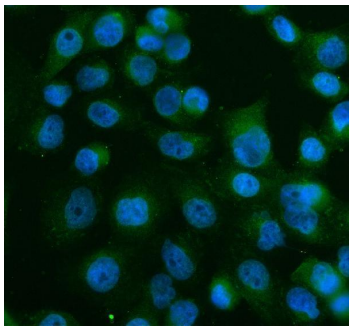


Anti-VE Cadherin antibody, PA2079, IHC(P)IHC(P): Rat Brain Tissue



Anti-VE Cadherin antibody, PA2079, IHC(P)IHC(P): Human Lung Cancer Tissue

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com



IF analysis of CDH5 using anti-CDH5 antibody (PA2079). CDH5 was detected in an immunocytochemical section of human SK-HEP1 cells. Cells were permeabilized with Triton X-100 for 10 minutes. The cells were blocked with 10% goat serum. And then incubated with 10 ug/mL rabbit anti-CDH5 Antibody (PA2079) overnight at 4°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127), Cy3 conjugated goat anti-mouse IgG (BA1031) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

5 Publications Citing This Product

1. PubMed ID: 10.1016/j.jstrokecerebrovasdis.2020.104748, Effect of MicroRNA-126a-3p on Bone Marrow Mesenchymal Stem Cells Repairing Blood-brain Barrier and Nerve Injury after Intracerebral Hemorrhage

2. PubMed ID: 33505583, Chen H,Chen B,Li B,Luo X,Wu H,Zhang C,Liu J,Jiang J,Zhao B. Gastrodin Promotes the Survival of Random-Pattern Skin Flaps via Autophagy Flux Stimulation. Oxid Med Cell Longev. 2021 Jan 9;2021:6611668.doi:10.1155/2021/6611668.PMID:33505583;PMCID:PMC7811417.

3. PubMed ID: 33044023, Li J,Chen H,Lou J,Bao G,Wu C,Lou Z,Wang X,Ding J,Li Z,Xiao J,Xu H,Gao W,Zhou K.Exenatide improves random-pattern skin flap survival via TFE3 mediated autophagy augment.J Cell Physiol.2020 Oct 12.doi:10.1002/jcp.30102.Epub ahead of print.PMID:33044023.

Visit bosterbio.com/anti-ve-cadherin-antibody-pa2079-boster.html to see all 5 publications.

Anti-VE-Cadherin CDH5-Antibody

For Research Use Only. Not for use in diagnostic procedures.