

Anti-CD31 PECAM1 Antibody

Catalog Number: A01513

About PECAM1

Anti-CD31 antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). CD31 (PECAM-1) is a 130 kDa platelet endothelial cell adhesion molecule encoded by the PECAM1 gene found on chromosome 17 in humans. CD31 is expressed on platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. CD31 plays a key role in modulation of integrin-mediated cell adhesion, leukocyte transendothelial migration, angiogenesis, apoptosis and macrophage phagocytosis. CD31 is also expressed in certain tumors, including epithelioid hemangioendothelioma, epithelioid sarcoma-like hemangioendothelioma, other vascular tumors, histiocytic malignancies, and plasmacytomas. Anti-CD31 is ideal for researchers interested in Stem Cell Research, Epigenetics, and Cell-cycle Regulation research.

Overview

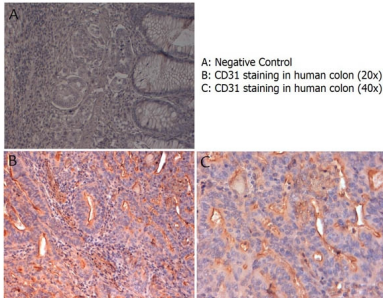
Product Name	Anti-CD31 PECAM1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-CD31 PECAM1 Antibody (Catalog # A01513). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q3SWT0

Technical Details

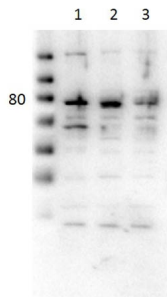
Immunogen	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminal domain of rat CD31 protein.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

Form	Liquid (sterile filtered)
Concentration	90 mg/mL by Refractometry
Purification	CD31 PECAM1 antibody is directed against rat CD31 protein. The product is delipidated and defibrinated antiserum. A BLAST analysis was used to suggest cross-reactivity with CD31 from rat, human, and mouse based on a 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:20,000</p> <p>IHC: 4µg/mL</p> <p>WB: 1:500</p>

Anti-CD31 PECAM1 Antibody (A01513) Images



CD31 was detected in paraffin-embedded sections of vascular endothelium in human colon tissues at 20x (B) and at 40x (C) using rabbit anti-CD31 Antigen Affinity purified polyclonal antibody (Catalog # A01513) at 4.0 ug/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western blot analysis of CD31 expression in NIH3T3 whole cell lysates (lane 1), JURKAT whole cell lysates (lane 2) and HT-29 whole cell lysates (lane 3). CD31 at 80KD was detected using rabbit anti-CD31 Antigen Affinity purified polyclonal antibody (Catalog # A01513) at 1:500. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

14 Publications Citing This Product

1. PubMed ID: 28901187, Chen X, Zhang M, Chen S, Wang X, Tian Z, Chen Y, Xu P, Zhang L, Zhang L, Zhang L. Cell Transplant. 2017 Aug;26(8):1331-1340. doi: 10.1177/0963689717721216. Peptide-Modified Chitosan Hydrogels Accelerate Skin Wound Healing by Promoting Fibroblast P...
2. PubMed ID: 23336136, Detrimental Effect of Electromagnetic Pulse Exposure on Permeability of In Vitro Blood-brain-barrier Model ZHOU Jia Xing, DING Gui Rong, ZHANG Jie %u2026
3. PubMed ID: 30008838, EPCR promotes MGC803 human gastric cancer cell tumor angiogenesis in vitro through activating ERK1/2 and AKT in a PAR1%u2011dependent manner

Visit bosterbio.com/anti-cd31-antibody-a01513-boster.html to see all 14 publications.

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.



Anti-CD31 PECAM1 Antibody