

## Anti-CD31/Pecam1 Antibody Picoband™

Catalog Number: A01513-1

### About Pecam1

CD31 also known as Platelet endothelial cell adhesion molecule (PECAM-1), is a protein that in human is encoded by the PECAM1 gene. Encoded protein is a member of the immunoglobulin superfamily and this gene is mapped to 17q23.3. CD31 is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. It is demonstrated that CD31 expression on human PBSCs may positively affect both neutrophil and platelet engraftment. Meanwhile, CD31 is involved in leukocyte migration and angiogenesis, which are key components of venous thrombus resolution.

### Overview

Product Name	Anti-CD31/Pecam1 Antibody Picoband™
Reactive Species	Mouse
Description	Boster Bio Anti-CD31/Pecam1 Antibody Picoband™ catalog # A01513-1. Tested in ELISA, WB applications. This antibody reacts with Mouse.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
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	Q08481

### Technical Details

Immunogen	E. coli-derived mouse CD31 recombinant protein (Position: R58-Q273).
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml

Direct ELISA, 0.1-0.5ug/ml

## Anti-CD31/Pecam1 Antibody Picoband™ (A01513-1) Images

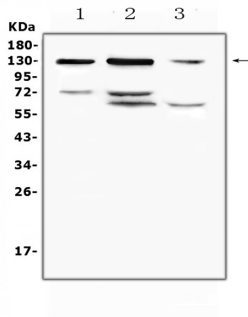


Figure 1. Western blot analysis of CD31 using anti-CD31 antibody (A01513-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: mouse ovary tissue lysates,

Lane 2: mouse stomach tissue lysates,

Lane 3: mouse kidney tissue lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-CD31 antigen affinity purified polyclonal antibody (Catalog # A01513-1) 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 at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CD31 at approximately 130KD. The expected band size for CD31 is at 82KD.

## 20 Publications Citing This Product

1. PubMed ID: 10.4161/cbt.8.5.7687, Combined endostatin and TRAIL gene transfer suppresses human hepatocellular carcinoma growth and angiogenesis in nude mice
2. PubMed ID: 10.1155/2020/9485398, Quercetin Downregulates Cyclooxygenase-2 Expression and HIF-1alpha/VEGF Signaling-Related Angiogenesis in a Mouse Model of Abdominal Aortic Aneurysm
3. PubMed ID: -, Shen Song,Zhao Liu,Mohamed Aamer Abubaker,Ling Ding,Ji Zhang,Shengrong Yang,Zengjie Fan,Antibacterial polyvinyl alcohol/bacterial cellulose/ nano-silver hydrogels that effectively promote wound healing,Materials Science and Engineering: C,Volume 126,2021,112171,ISSN 0928-4931,https://doi.org/10.1016/j.msec.2021.112171.

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