

## Anti-CD31/PECAM1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9094-Fluoro488

### 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, CD31 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® Fluoro488 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P16284

### Technical Details

Immunogen	E.coli-derived human CD31 recombinant protein (Position: Q28-G382). Human CD31 shares 65% and 68% amino acid (aa) sequences identity with mouse and rat CD31, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

## 41 Publications Citing This Product

1. PubMed ID: 10.1016/j.msec.2021.112171, Antibacterial polyvinyl alcohol/bacterial cellulose/nano-silver hydrogels that effectively promote wound healing
2. PubMed ID: 33858504, Tan PC,Chao PC,Cheng C,Chen CH,Huang RL,Zhou SB,Xie Y,Li QF.A randomized, controlled clinical trial of autologous stromal vascular fraction cells transplantation to promote mechanical stretch-induced skin regeneration.Stem Cell Res Ther.2021 Apr 15;12(1):243.doi:10.1186/s13287-021-02318-5.PMID:33858504;PMCID:P MC8048343.
3. PubMed ID: 31734410, Wang B,Lv X,Li Z,Zhang M,Yao J,Sheng N,Lu M,Wang H,Chen S.Urethra-inspired biomimetic scaffold: A therapeutic strategy to promote angiogenesis for urethral regeneration in a rabbit model.Acta Biomater.2020 Jan 15;102:247-258.doi:10.1016/j.actbio.2019.11.0

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