

Anti-CD31/PECAM1 Antibody Picoband® (monoclonal, 2D4) Fluoro594 Conjugated

Catalog Number: M01513-4-Fluoro594

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® (monoclonal, 2D4) Fluoro594 Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (IHC, IHC-F, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Monoclonal 2D4
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Mouse
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	Mouse IgG2b
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro594 Excitation Wavelength: 593 nm Emission Wavelength: 618 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

4 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: 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:PMC8048343.
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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