

Anti-CD31/PECAM1 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB9094-Fluoro647

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

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| Product Name | Anti-CD31/PECAM1 Antibody Picoband® Fluoro647 Conjugated |
| Reactive Species | Human |
| Application | Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IHC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| 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 | Rabbit |
| Uniprot ID | P16284 |

Technical Details

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| 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 | Fluoro647 Excitation Wavelength: 650 nm Emission Wavelength: 665 nm |
| Suggested Dilutions | 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: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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