

## CD31 Antibody

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 250590

**Unit:** 0.1 mg

**Description:**

CD31 (PECAM1) is a member of the immunoglobulin (Ig) superfamily that is expressed on the surface of circulating platelets, monocytes, neutrophils, and particular T-cell subsets. CD31 is also a major constituent of the endothelial cell intercellular junction, where up to an estimated 1 million molecules are concentrated. Because of this cellular expression pattern, CD31 is implicated in several functions, including transendothelial migration of leukocytes, angiogenesis, and integrin activation. Ig superfamily members are known to mediate cell adhesion, or antigen recognition, e.g. immunoglobulins, T-cell receptors, and MHC molecules. In addition, a subgroup comprising 30 members characterized by the presence of one or more immunoreceptor tyrosine-based inhibitory motifs (ITIMs) within their cytoplasmic domain has also been recognized. CD31, which has 6 ITIMs within its cytoplasmic domain, is a member of this subfamily.

**Isotype:** Rabbit Ig

**Applications:** E, IF, IHC, IP, WB

**Species Reactivity:** B, H, M, P, Sh

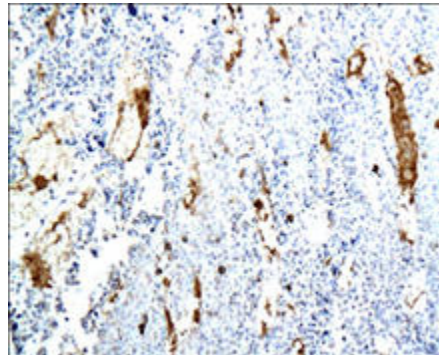
**Format:** Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

**Alternate Names:** Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; CPIIA<sup>1</sup>; CD31 antigen; PECAM1

**Accession No.:** P16284

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PECAM1.

**Application Notes:** E: 1:500-1:1,000; WB: 1:200-1:500; IHC: 1:200-1:500



**CD31 staining in mouse melanoma. Paraffin-embedded mouse melanoma cells are stained with CD31 Antibody (Cat. No. 250590) used at 1:200 dilution.**

**Storage:** Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

**Product Citations:** [1] Chen T et al. 2015. Stem Cells. 33(5): 1405-18. PMID# 25535084. [2] Di Bernardini et al. 2014. J Biol Chem. PMID 24356956. [3] Guo R et al. 2014. Wound Repair Regen. 22(3): 390-8. PMID# 24844338. [4] Hsu DSS et al. 2014. Cancer Cell. 26(4): 534-548. [5] Beokema B et al. 2014. J Mat Science Mat Med. 25(2): 423-433. PMID#24178984. [6]Chang K et al. 2013. Acta Biomaterialia. 9(11): 9012-29. PMID# 23851171. [7] Tepekoylu C et al. 2013. J Thoracic Card Surgery. 146(4): 971-8. PMID# 23395097. [8] Boldt J et al. 2012. Tissue Eng Part C Met. 19(5): 363-374. PMID# 23098227. [9] Yu G et al. 2012. Tumor Biology. 33(91): 223-8. PMID# 22076923. [10] Williams M et al. 2012. J Tissue Eng Regen Med. 7(6): 434-442. PMID# 22328229. [11] Kinoshita N et al. 2012. Wound Repair Regen. 20(1): 91-102. PMID# 22276588. [12] Ma J et al. 2012. Tissue Engineering Part A. 18(1-2): 103-116. PMID# 21902608. [13] Feng X. et al. 2009. J. Am. Soc. Nephrol. 20: 2138-46. PMID# 19608706.

For research use only, not for diagnostic or therapeutic procedures.