

Datasheet for ABIN965785
anti-CD31 antibody



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3 Publications

Overview

Quantity:	0.1 mg
Target:	CD31 (PECAM1)
Reactivity:	Human
Host:	Please inquire
Clonality:	Monoclonal
Conjugate:	This CD31 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Isotype:	IgG1
Specificity:	Ni-NTA purified recombinant CD31 expressed in E. Coli strain BL21 (DE3)
Purification:	Antibodies are purified by protein A affinity chromatography

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	CD31 (PECAM1 Products)
Background:	CD31, also known as platelet endothelial cell adhesion molecule 1 (PECAM1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed on the surface of endothelial cells, and concentrated at the junction between them. The antibody reacts with the murine form of the Platelet-Endothelial Cell Adhesion Molecule. The reactivity of the antibody is restricted to the isoform of the

Target Details

molecule that is selectively expressed by endothelial cells. The antigen is predominantly present at the lateral borders of endothelial cells as described for human PECAM-1. It is also weakly expressed on many peripheral lymphoid cells and platelets. CD31 has been used to measure angiogenesis in association with tumor recurrence. Other studies have also indicated that CD31 and CD34 can be used as markers for myeloid progenitor cells and recognize different subsets of myeloid leukemia infiltrates (granular sarcomas).

Gene ID: 5175

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: Western Blot: 1: 500- 1: 2,000
IHC(P): 1: 500- 1: 2,000
ELISA: Propose dilution 1: 10,000.
Determining optimal working dilutions by titration test.

Restrictions: For Research Use only

Handling

Storage: -20 °C

Publications

Product cited in: Mayr, Zou, Zhang, Dietrich, Hu, Xu: "Accelerated arteriosclerosis of vein grafts in inducible NO synthase(-/-) mice is related to decreased endothelial progenitor cell repair." in: **Circulation research**, Vol. 98, Issue 3, pp. 412-20, (2006) ([PubMed](#)).

Bingle, Lewis, Corke, Reed, Brown: "Macrophages promote angiogenesis in human breast tumour spheroids in vivo." in: **British journal of cancer**, Vol. 94, Issue 1, pp. 101-7, (2006) ([PubMed](#)).

Wynne, Ball, McLellan, Dockery, Zimmermann, Moore: "Mouse pregnancy-specific glycoproteins: tissue-specific expression and evidence of association with maternal vasculature." in: **Reproduction (Cambridge, England)**, Vol. 131, Issue 4, pp. 721-32, (2006) ([PubMed](#)).