

Datasheet for ABIN1724665

anti-CD31 antibody[Go to Product page](#)**4** Images**3** Publications

Overview

Quantity:	100 µL
Target:	CD31 (PECAM1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD31 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Immunocytochemistry (ICC)

Product Details

Purpose:	CD31 Antibody
Immunogen:	Purified recombinant fragment of human CD31 expressed in E. Coli.
Clone:	2F7B2
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	CD31 (PECAM1 Products)
Background:	Description: 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

Target Details

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 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).

Aliases: CD31, PECAM-1, PECAM1

Gene ID: 5175

HGNC: 5175

UniProt: [P16284](#)

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

Application Details

Application Notes: ELISA: 1/10000
ICC: 1/200 - 1/1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Publications

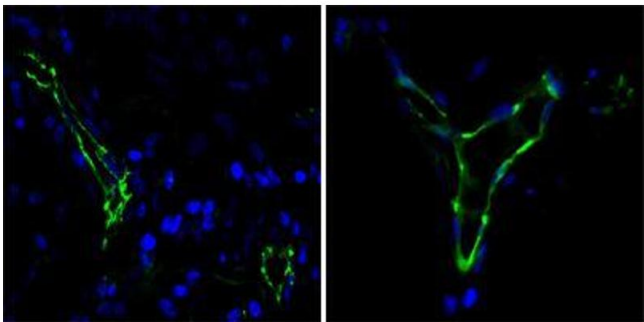
Product cited in: Wynne, Ball, McLellan, Dockery, Zimmermann, Moore: "Mouse pregnancy-specific

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

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](#)).

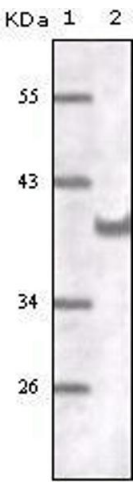
Mayr, Zou, Zhang, Dietrich, Hu, Xu: "Accelerated arteriosclerosis of vein grafts in inducible NO synthase(-/-) mice is related to decreased endothelial progenitor cell repair." in: **Circulation research**, Vol. 98, Issue 3, pp. 412-20, (2006) ([PubMed](#)).

Images



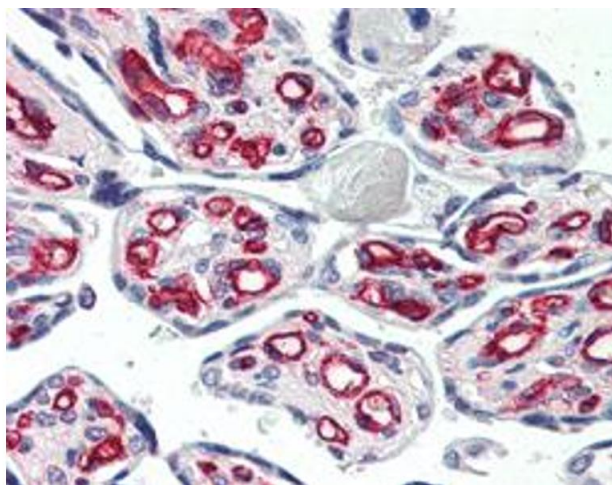
Immunofluorescence

Image 1. Immunofluorescence analysis of paraffin-embedded human lung cancer(left) and breast cancer(right) cells using CD31 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



Western Blotting

Image 2. Western blot analysis using CD31 mouse mAb against truncated CD31 recombinant protein.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded human placenta using CD31 mouse mAb.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1724665.