Datasheet for ABIN5596763

anti-CD31 antibody (C-Term)

2 Images

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Overview

Quantity:	100 µL
Target:	CD31 (PECAM1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	CD31 Antibody
Immunogen:	Immunogen: This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminal domain of rat CD31 protein. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	CD31 PECAM1 antibody is directed against rat CD31 protein.
Characteristics:	Synonyms: Rabbit anti-CD31 antibody, rabbit anti-PECAM-1 antibody, Platelet endothelial cell adhesion molecule, PECAM-1, EndoCAM, GPIIA', PECA1, CD-31 Antibody, PECAM1 Antibody, CD31/PECAM1 Antibody
Purification:	The product is delipidated and defibrinated antiserum.
Sterility:	Sterile filtered

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	Pecam1 (PECAM1 Products)
Background:	Background: Anti-CD31 antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). CD31 (PECAM-1) is a 130 kDa platelet endothelial cell adhesion molecule encoded by the PECAM1 gene found on chromosome 17 in humans. CD31 is expressed on platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. CD31 plays a key role in modulation of integrin-mediated cell adhesion, leukocyte transendothelial migration, angiogenesis, apoptosis and macrophage phagocytosis. CD31 is also expressed in certain tumors, including epithelioid hemangioendothelioma, epithelioid sarcoma-like hemangioendothelioma, other vascular tumors, histiocytic malignancies, and plasmacytomas. Anti-CD31 is ideal for researchers interested in Stem Cell Research, Epigenetics, and Cell-cycle Regulation research.
Gene ID:	29583
NCBI Accession:	NP_113779
UniProt:	Q3SWT0
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	Immunohistochemistry Dilution: 4 µg/mL Application Note: CD31 antibody has been tested for use in ELISA, immunohistochemistry, and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 80 kDa in size corresponding to CD31 protein by western blotting in the appropriate stimulated tissue or cell lysate or extract. Western Blot Dilution: 1:500 ELISA Dilution: 1:20,000
Restrictions:	For Research Use only

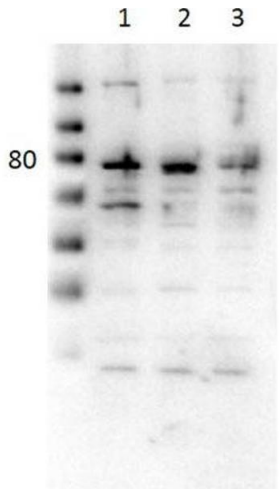
Handling

Format:	Liquid
Concentration:	90 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None

Handling

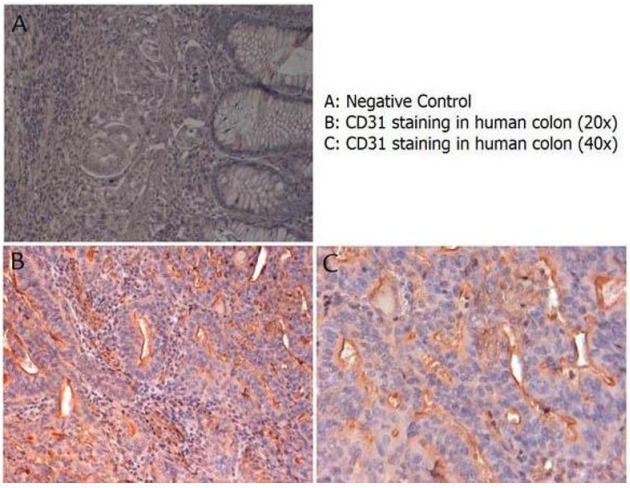
	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Validation report #104084 for Unfolding Profile (UP)



Western Blotting

Image 1. Western Blot of Rabbit Anti-CD31 Antibody. Lane 1: 3T3 Whole cell lysate. Lane 2: Jurkat Whole cell lysate. Lane 3: HT-29 Whole cell lysate. Load: 10µg/lane. Primary Antibody Anti-CD-31 used 1:500 with 0.75% TBS with Casein overnight. Secondary Antibody Goat anti-rabbit HRP used 1:40,000 for 30 min at room temp. Expect MW: 80kda.



Immunohistochemistry

Image 2. Immunohistochemistry with anti-CD31 antibody showing CD31 staining of vascular endothelium in human colon at 20x and 40x (B & C). Formalin fixed/paraffin embedded sections were subjected to heat induced epitope retrieval (HIER) at pH 6.2 and then incubated with rabbit anti-human CD31 antibody at 4.0 µg/ml for 60 minutes. The reaction was developed using MACH 1 universal HRP polymer detection system and visualized with 3'3-diamino-benzidine substrate (DAB).