

Datasheet for ABIN6264129
anti-CD31 antibody (C-Term)



[Go to Product page](#)

2 Images

3 Publications

Overview

Quantity:	100 µL
Target:	CD31 (PECAM1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD31 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human CD31, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	CD31 Antibody detects endogenous levels of total CD31.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	CD31 (PECAM1)
---------	---------------

Target Details

Alternative Name:	PECAM1 (PECAM1 Products)
Background:	Description: Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions (PubMed:19342684, PubMed:17580308). Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes (PubMed:19342684). Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions (PubMed:27958302). Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils (PubMed:17580308). Homophilic ligation of PECAM1 prevents macrophage-mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal (PubMed:12110892). Promotes macrophage-mediated phagocytosis of apoptotic leukocytes by tethering them to the phagocytic cells, PECAM1-mediated detachment signal appears to be disabled in apoptotic leukocytes (PubMed:12110892). Modulates bradykinin receptor BDKRB2 activation (PubMed:18672896). Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in endothelial cells (PubMed:18672896). Induces susceptibility to atherosclerosis (By similarity). Gene: PECAM1
Molecular Weight:	82kDa
Gene ID:	5175
UniProt:	P16284
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl and glycerol.
Storage:	-20 °C

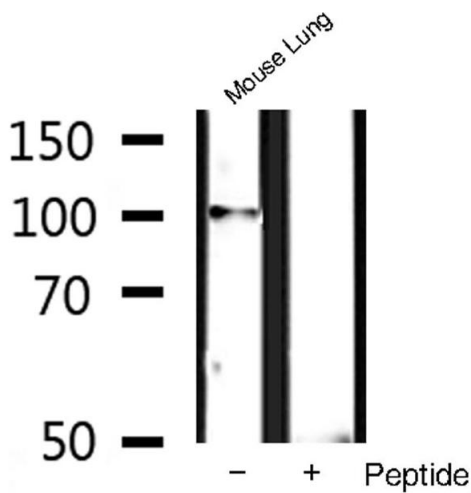
Handling

Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Publications

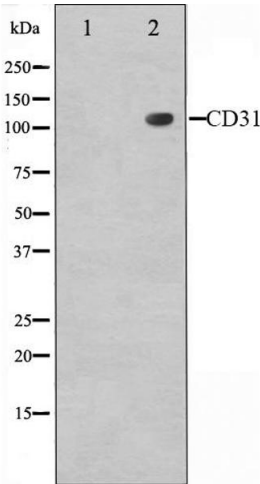
Product cited in:	Liu, Huang, Jin, Zhou, Chen, Li, Chen, Li, Yao, Li, Lan, Ye, Wang: "MicroRNA-370 inhibits the growth and metastasis of lung cancer by down-regulating epidermal growth factor receptor expression." in: Oncotarget, Vol. 8, Issue 50, pp. 88139-88151, (2018) (PubMed). Li, Chen, Wang, Wang, Liu: "Calpain inhibition improves erectile function in diabetic mice via upregulating endothelial nitric oxide synthase expression and reducing apoptosis." in: Asian journal of andrology, Vol. 20, Issue 4, pp. 342-348, (2018) (PubMed). Song, Hai, Wang, Zhao, Chen, Cui, Xie, Yu, Li, Wu, Li: "Realgar transforming solution suppresses angiogenesis and tumor growth by inhibiting VEGF receptor 2 signaling in vein endothelial cells." in: Archives of pharmacal research, Vol. 41, Issue 4, pp. 467-480, (2018) (PubMed).
-------------------	--

Images



Western Blotting

Image 1. Western blot analysis of CD31 expression in mouse lung tissue lysates.



Western Blotting

Image 2. Western blot analysis of PECAM-1 expression in Jurkat whole cell lysates, The lane on the left is treated with the antigen-specific peptide.