Datasheet for ABIN669013

anti-CD31 antibody (AA 601-680) (FITC)

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Overview

Quantity:	100 µL
Target:	CD31 (PECAM1)
Binding Specificity:	AA 601-680
Reactivity:	Human, Mouse, Rat, Rabbit, Pig, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD31 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse CD31
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Mouse, Pig, Rabbit, Rat
Predicted Reactivity:	Horse
Purification:	Purified by Protein A.

Target Details

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

Target Details

Background:	Synonyms: CD31, PECA1, GPIIA', PECAM-1, endoCAM, CD31/EndoCAM, Platelet endothelial cell adhesion molecule, PECAM1 Background: Induces susceptibility to atherosclerosis (By similarity). Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions. Tyr-69 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. Prevents phagocyte ingestion of closely apposed viable cells by transmitting 'detachment' signals, and changes function on apoptosis, promoting tethering of dying cells to phagocytes (the encounter of a viable cell with a phagocyte via the homophilic interaction of PECAM1 on both cell surfaces leads to the viable cell's active repulsion from the phagocyte. During apoptosis, the inside-out signaling of PECAM1 is somehow disabled so that the apoptotic cell does not actively reject the phagocyte anymore. The lack of this repulsion signal together with the interaction of the eat-me signals and their respective receptors causes the attachment of the apoptotic cell to the phagocyte, thus triggering the process of engulfment). Isoform Delta15 is unable to protect against apoptosis. Modulates BDKRB2 activation. Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in human umbilical cord vein cells (HUVEC).
Gene ID:	5175
UniProt:	P16284
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	FCM 1:20-100
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Yang, Yu, Li, Yu, Ke, Wang, Wang, Qiu, Gao, Zhang, Huang: "Store-operated calcium entry-activated autophagy protects EPC proliferation via the CAMKK2-MTOR pathway in ox-LDL exposure." in: **Autophagy**, Vol. 13, Issue 1, pp. 82-98, (2017) (PubMed).

Zhang, Chen, Liu, Zhou, Hu, Zhou, Han, Chen: "Exendin-4 promotes proliferation of adipose-derived stem cells through ERK and JNK signaling pathways." in: **In vitro cellular & developmental biology. Animal**, Vol. 52, Issue 5, pp. 598-606, (2016) (PubMed).

Zhou, Yang, Xin, Zhang, Hu, Zhou, Chen, Chen et al.: "Exendin-4 enhances the migration of adipose-derived stem cells to neonatal rat ventricular cardiomyocyte-derived conditioned medium via the phosphoinositide 3-kinase/Akt-stromal cell-derived ..." in: **Molecular medicine reports**, (2015) (PubMed).

Yu, Wang, Wang, Lu, Li, Qin, Huang: "Activation of liver X receptor enhances the proliferation and migration of endothelial progenitor cells and promotes vascular repair through PI3K/Akt/eNOS signaling pathway activation." in: **Vascular pharmacology**, Vol. 62, Issue 3, pp. 150-61, (2014) (PubMed).