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Datasheet for ABIN669006 anti-CD31 antibody (AA 601-680)

8 Images

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Publications



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 un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

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

Target:

CD31 (PECAM1)

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Target Details	
Alternative Name:	CD31 (PECAM1 Products)
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:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:

For Research Use only

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Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Li, Zhang, Chen, Tian, Wang: "Increased Angiogenic and Adipogenic Differentiation Potentials in Adipose-Derived Stromal Cells from Thigh Subcutaneous Adipose Depots Compared with Cells from the Abdomen." in: **Aesthetic surgery journal**, Vol. 39, Issue 5, pp. NP140-NP149, (2019) (PubMed).

Vuletic, Zhou, Li, Bai, Meng, Zhu, Ding, Li, Sun, Ren: "Validation of Bevacizumab Therapy Effect on Colon Cancer Subtypes by Using Whole Body Imaging in Mice." in: **Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging**, (2017) (PubMed).

Long, Lankford, Kumar, Grahn, Borjesson, Farmer, Wang: "Isolation and characterization of canine placenta-derived mesenchymal stromal cells for the treatment of neurological disorders in dogs." in: **Cytometry. Part A : the journal of the International Society for Analytical Cytology**, Vol. 93, Issue 1, pp. 82-92, (2017) (PubMed).

Korkmaz, Ulrich, Vogels, de Wit, van Zuijlen, Krijnen, Niessen: "Neutrophil extracellular traps coincide with a pro-coagulant status of microcirculatory endothelium in burn wounds." in: **Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society**, Vol. 25, Issue 4, pp. 609-617, (2017) (PubMed).

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

There are more publications referencing this product on: Product page

Images





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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin embedded rat skin tissue labeled with Anti-CD31/PECAM-1 Polyclonal Antibody, Unconjugated at 1:300, followed by conjugation to the secondary antibody and DAB staining

Western Blotting

Image 2. Recombinant human CD31 protein probed with CD31 Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody at 1:10000 for 90 minutes at 37°C.

Flow Cytometry

Image 3. Human Jurkat cells probed with CD31 Polyclonal Antibody, Unconjugated (green) at 1:100 for 30 minutes followed by a FITC conjugated secondary antibody compared to unstained cells (blue), secondary only (light blue), and isotype control (orange).

Please check the product details page for more images. Overall 8 images are available for ABIN669006.

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