

Datasheet for ABIN726140
anti-CD31 antibody (AA 681-738)

3 Images

29 Publications

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Overview

Quantity:	100 µL
Target:	CD31 (PECAM1)
Binding Specificity:	AA 681-738
Reactivity:	Human, Mouse, Rat, Rabbit, Pig, Cow
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)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

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

Target Details

Target:	CD31 (PECAM1)
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Target Details

Alternative Name:	CD31 (PECAM1 Products)
Background:	<p>Synonyms: CD31, PECA1, GPIIA', PECAM-1, endoCAM, CD31/EndoCAM, Platelet endothelial cell adhesion molecule, PECAM1</p> <p>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).</p>
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 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

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:

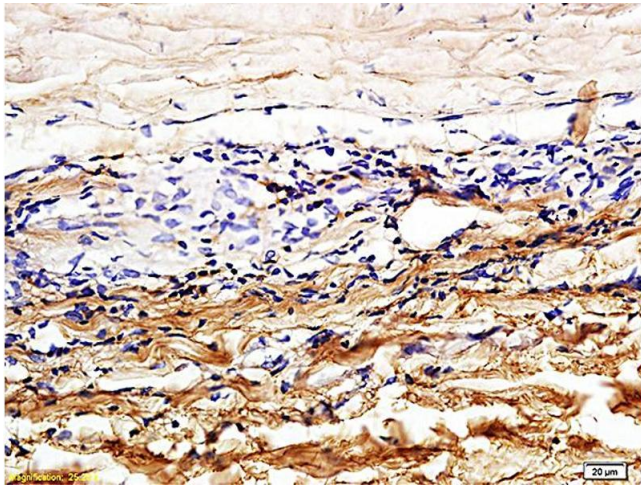
Kong, Lee, Youm, Kim, Lee, Suh, Kim: "Effect of treatment with angiopoietin-2 and vascular endothelial growth factor on the quality of xenografted bovine ovarian tissue in mice." in: **PLoS ONE**, Vol. 12, Issue 9, pp. e0184546, (2018) ([PubMed](#)).

Brumm, Nunez, Doroudchi, Kawaguchi, Duan, Pellegrini, Lam, Carmichael, Deb, Hinman: "Astrocytes Can Adopt Endothelial Cell Fates in a p53-Dependent Manner." in: **Molecular neurobiology**, Vol. 54, Issue 6, pp. 4584-4596, (2018) ([PubMed](#)).

Lee, Lee, Lee, Choi, Yang: "Chondrocyte-derived extracellular matrix suppresses pathogenesis of human pterygium epithelial cells by blocking the NF-κB signaling pathways." in: **Molecular vision**, Vol. 22, pp. 1490-1502, (2018) ([PubMed](#)).

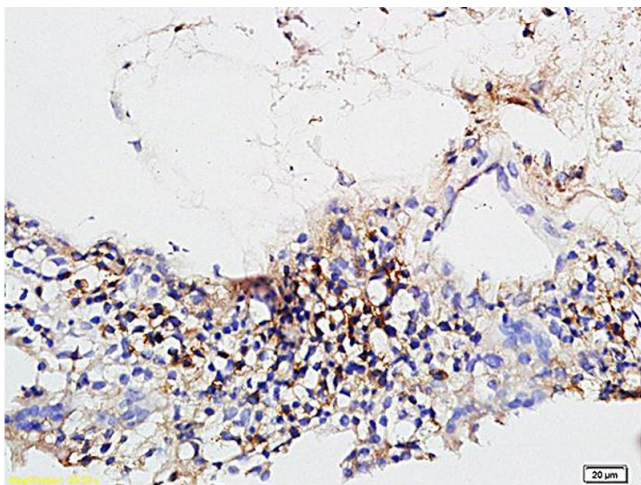
Wang, Chen, Wang, Shi, Wang, Zhang, Gao, Li, Qi, An, Chen: "Targeting neurokinin-3 receptor: a novel anti-angiogenesis strategy for cancer treatment." in: **Oncotarget**, Vol. 8, Issue 25, pp. 40713-40723, (2018) ([PubMed](#)).

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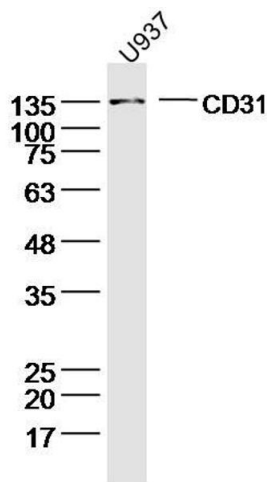
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rabbit sclera tissue labeled with Rabbit Anti-CD31/PECAM-1 Polyclonal Antibody (ABIN726140) at 1:600 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rabbit sclera tissue labeled with Rabbit Anti-CD31/PECAM-1 Polyclonal Antibody (ABIN726140) at 1:600 followed by conjugation to the secondary antibody and DAB staining.



Western Blotting

Image 3. U937 lysates probed with CD31 Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.