

Datasheet for ABIN726142

anti-CD31 antibody (AA 681-738) (Biotin)[Go to Product page](#)**1** Publication

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 conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (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)
Alternative Name:	CD31 (PECAM1 Products)
Background:	Synonyms: CD31, PECA1, GPIIA', PECAM-1, endoCAM, CD31/EndoCAM, Platelet endothelial cell

Target Details

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
IHC-P 1:200-400

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.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for 12 months.

Expiry Date: 12 months

Publications

Product cited in: Xiang, Zheng, Zhou, Qiao, Tran, Pu, Li, Kong, Kouzani, Lin, Liu, Li, Shigdar, Duan: "Superior Performance of Aptamer in Tumor Penetration over Antibody: Implication of Aptamer-Based Theranostics in Solid Tumors." in: **Theranostics**, Vol. 5, Issue 10, pp. 1083-97, (2015) ([PubMed](#)).