

Product datasheet

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ARG58077 anti-CD31 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes CD31

Tested Reactivity Hu

Tested Application ICC/IF, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name CD31

Species Human

Immunogen Synthetic peptide of Human CD31.

Conjugation Un-conjugated

Alternate Names EndoCAM; CD31/EndoCAM; PECAM-1; CD31; PECA1; CD antigen CD31; GPIIA'; endoCAM; Platelet

endothelial cell adhesion molecule

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|----------------|
| | ICC/IF | 1:50 - 1:200 |
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | THP-1 | |
| Observed Size | 120 - 150 kDa | |

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

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Bioinformation

Gene Symbol PECAM1

Gene Full Name platelet/endothelial cell adhesion molecule 1

Background CD31 protein is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells,

and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis,

and integrin activation. [provided by RefSeq, May 2010]

Function CD31 is a 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.

Isoform Delta15: Does not protect against apoptosis. [UniProt]

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody;

Developmental Biology antibody; Signaling Transduction antibody; Endothelial Cell Marker antibody;

Microvascular Density Study antibody

Calculated Mw 83 kDa

PTM Phosphorylated on Ser and Tyr residues after cellular activation. Phosphorylated on tyrosine residues

by FER and FES in response to FCER1 activation (By similarity). In endothelial cells Fyn mediates

 $mechanical \hbox{-} force \hbox{ (stretch or pull) induced tyrosine phosphorylation.} \\$

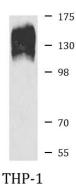
Palmitoylation by ZDHHC21 is necessary for cell surface expression in endothelial cells and enrichment

in membrane rafts. [UniProt]

Cell membrane, Single-pass type I membrane protein, Cell membrane, Lipid-anchor, Cell junction, Cell

junction. [UniProt]

Images



ARG58077 anti-CD31 antibody WB image

Western blot: 25 μg of THP-1 cell lysate stained with ARG58077 anti-CD31 antibody at 1:500 dilution.