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Goat anti-Pecam1 / CD31 (mouse) Antibody

Peptide-affinity purified goat antibody
Catalog # AF4498a

Specification

Goat anti-Pecam1 / CD31 (mouse) Antibody - Product Information

Application	**WB, Pep-ELISA**
Primary Accession	Q08481
Other Accession	NP_032842.2, NP_001027550.1
Reactivity	**Mouse**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**81263**

Goat anti-Pecam1 / CD31 (mouse) Antibody - Additional Information

Gene ID 18613

Other Names
Pecam1; platelet/endothelial cell adhesion molecule 1; C85791; Cd31; PECAM-1; Pecam; PECAM-1/CD31; platelet endothelial cell adhesion molecule

Dilution
WB~~1:1000
Pep-ELISA~~N/A

Format
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen
This antibody is expected to recognize both reported isoforms (NP_032842.2; NP_001027550.1).

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat anti-Pecam1 / CD31 (mouse) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat anti-Pecam1 / CD31 (mouse) Antibody - Protein Information

Name Pecam1

Synonyms Pecam, Pecam-1

Function
Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions (By similarity). Tyr-679 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 (By similarity). Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions (By similarity). Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils (By similarity). Homophilic ligation of PECAM1 prevents macrophage- mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal (By similarity). 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 (By similarity). Modulates bradykinin receptor BDKRB2 activation (By similarity). Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in endothelial cells (By similarity). Induces susceptibility to atherosclerosis (PubMed:19048083).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P16284}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P16284} Membrane raft {ECO:0000250|UniProtKB:P16284}. Cell junction {ECO:0000250|UniProtKB:P16284}. Note=Localizes to the lateral border recycling compartment (LBRC) and recycles from the LBRC to the junction in resting endothelial cells. Cell surface expression on neutrophils is down-regulated upon fMLP or CXCL8/IL8-mediated stimulation {ECO:0000250|UniProtKB:P16284}

Tissue Location
[Isoform 1]: Expressed in lung and platelets (at protein level).

Goat anti-Pecam1 / CD31 (mouse) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat anti-Pecam1 / CD31 (mouse) Antibody - Images