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Goat anti-Pecam1 / CD31 (mouse) Antibody

Peptide-affinity purified goat antibody
Catalog # AF4498a

Product Information

Application	WB, Pep-ELISA
Primary Accession	Q08481
Other Accession	NP_032842.2, NP_001027550.1
Reactivity	Mouse
Host	Goat
Clonality	Polyclonal
Clone Names	Pecam1
Calculated MW	81263

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.

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).