

CD31 Monoclonal Antibody

Catalog No: #27207

Package Size: #27207-1 50ul #27207-2 100ul

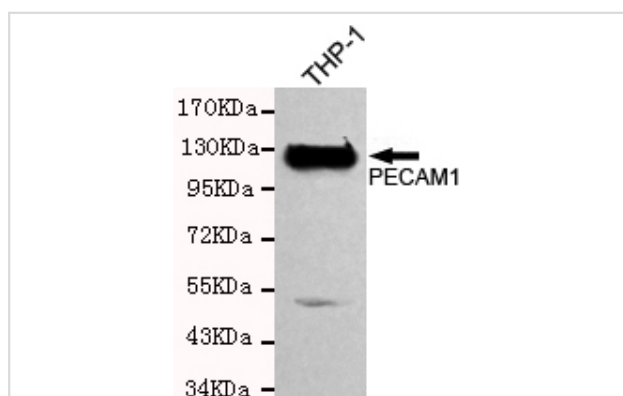
Description

Product Name	CD31 Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	2D3-B4-C8
Isotype	IgG1
Purification	Affinity purified
Applications	WB
Species Reactivity	Hu
Specificity	This antibody detects endogenous levels of PECAM1 and does not cross-react with related proteins.
Immunogen Type	Recombinant Protein
Immunogen Description	Purified recombinant human PECAM1 protein fragments expressed in E.coli.
Conjugates	Unconjugated
Target Name	CD31
Other Names	Adhesion molecule; CD31; CD31 antigen; CD31 EndoCAM; Endocam; FLJ34100; FLJ58394; GPIIA; GPIIA'; PECA1; PECA1_HUMAN; Pecam 1; PECAM 1 CD31 EndoCAM; PECAM-1; Pecam1; Platelet endothelial cell adhesion molecule; Platelet/endothelial cell adhesion molecule 1
Accession No.	Uniprot: P16284 Gene ID: 18613
SDS-PAGE MW	130kd
Formulation	Purified mouse monoclonal in PBS(pH 7.4) containing with 0.02% sodium azide,0.1mg/mlBSA and 50% glycerol.
Storage	store at -20Λ C

Application Details

Western blotting: 1:1000

Images



Western blot detection of PECAM1 antibody in THP-1 cell lysate using PECAM1 antibody (1:1000 diluted). Predicted band size: 130KDa. Observed band size: 130KDa.

Background

Induces susceptibility to atherosclerosis By similarity. Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions. 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. 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).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.