PECAM-1 (Ab-713) Antibody

Catalog No: #33141

Package Size: #33141-1 50ul #33141-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	PECAM-1 (Ab-713) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total PECAM-1 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human PECAM-1 around the phosphorylation site of tyrosine 713 (T-V-Y(p)-S-E).
Target Name	PECAM-1
Other Names	CD31; CD31 antigen; EndoCAM; PEC1; PECA1
Accession No.	Swiss-Prot: P16284NCBI Gene ID: 5175
Uniprot	P16284
GeneID	5175;
SDS-PAGE MW	82kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

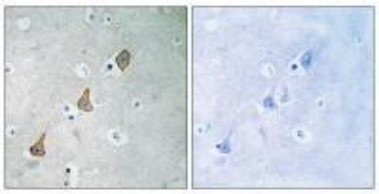
Application Details

Western blotting: 1:500~1:3000

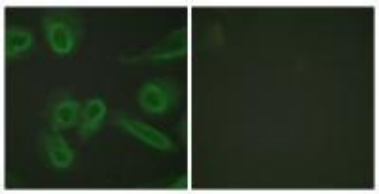
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:500

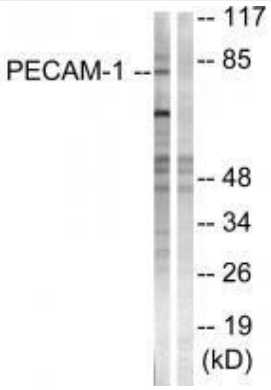
Images



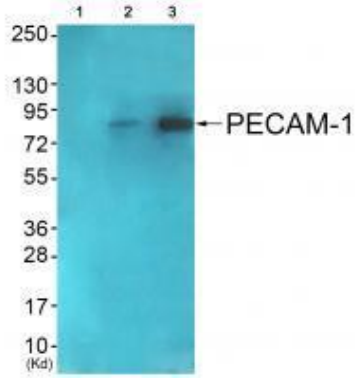
Immunohistochemistry analysis of paraffin-embedded human brain tissue using PECAM-1 (Ab-713) antibody #33141.



Immunofluorescence analysis of HeLa cells, using PECAM-1 (Ab-713) antibody #33141.



Western blot analysis of extracts from Jurkat cells, using PECAM-1 (Ab-713) antibody #33141.



Western blot analysis of extracts from COS7 cells (Lane 2) and JK cells (Lane 3), using PECAM-1 (Ab-713) antiobdy #33141. The lane on the left is treated with synthesized peptide.

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).
Tieming Zhao, J. Cell Biol., Jan 2001; 152: 65.
SM Watt, Blood, Nov 1993; 82: 2649 - 2663.
NETA ILAN, FASEB J, Feb 2001; 15: 362.

Note: This product is for in vitro research use only