PECAM-1 (Phospho-Tyr713) Antibody

Catalog No: #11995

Package Size: #11995-1 50ul #11995-2 100ul

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

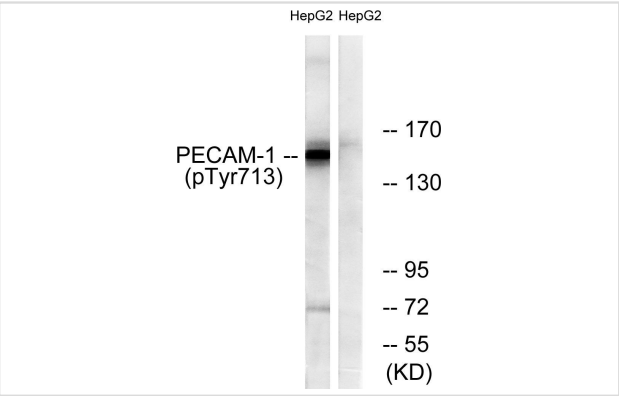
Description

Product Name	PECAM-1 (Phospho-Tyr713) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB;IHC;IF
Species Reactivity	Human; Mouse
Specificity	Phospho-CD31 (Y713) Polyclonal Antibody detects endogenous levels of CD31 protein only when phosphorylated at Y713.
Immunogen Type	Peptide-KLH
Immunogen Description	The antiserum was produced against synthesized peptide derived from human PECAM-1 around the phosphorylation site of Tyr713.
Target Name	PECAM-1
Modification	Phospho
Other Names	CD31; CD31 antigen; EndoCAM; PEC1; PECAM
Accession No.	Swiss-Prot#: P16284; NCBI Gene#: 5175; NCBI Protein#: NP_000433.4
Uniprot	P16284
GeneID	5175;
Calculated MW	150kD
SDS-PAGE MW	82 150kd
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C/1 year

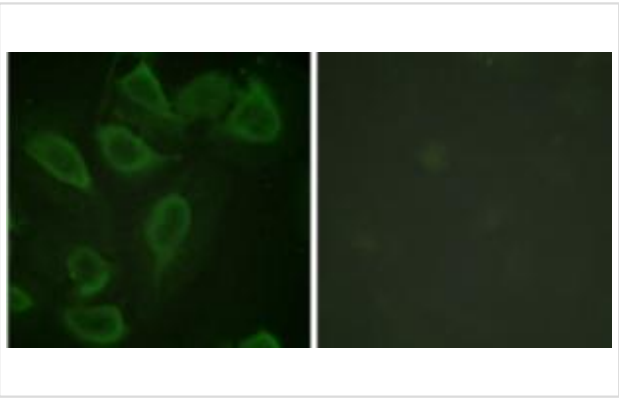
Application Details

WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000.

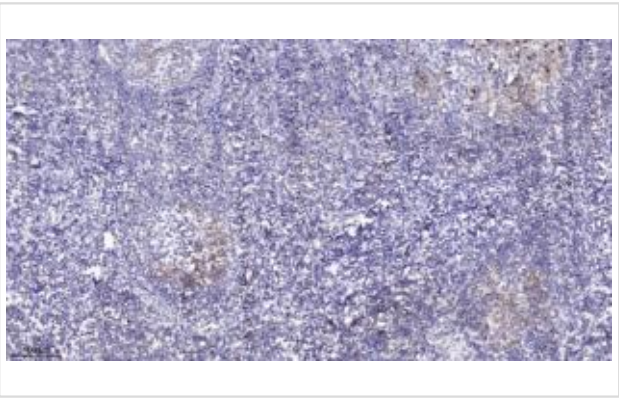
Images



Western blot analysis of lysates from HepG2 cells. The lane on the right is blocked with the phospho peptide.



Immunofluorescence analysis of HeLa cells. The picture on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).

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.

Garnacho C, et al. (2008) Blood 111, 3024-33. Udell CM, et al. (2006) J Biol Chem 281, 20949-57 .
O'Brien CD, Cao G, Makrigiannakis A, DeLisser HM (2004)Am J Physiol Cell Physiol 287, C1103-13.

Note: This product is for in vitro research use only