

CD31 (Phospho Tyr713) Rabbit pAb

CatalogNo: YP0530

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 150kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:20000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human PECAM-1 around the phosphorylation site of Tyr713. AA range:686-735

Specificity

Phospho-CD31 (Y713) Polyclonal Antibody detects endogenous levels of CD31 protein only when phosphorylated at Y713. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):TVySE

Target Information

Gene name PECAM1

Protein Name Platelet endothelial cell adhesion molecule

Organism	Gene ID	UniProt ID
Human	5175 ;	P16284 ;
Mouse	18613 ;	Q08481 ;

Cellular Localization

Cell membrane ; Single-pass type I membrane protein . Cell surface expression on neutrophils is down-regulated upon fMLP or CXCL8/IL8-mediated stimulation. .; [Isoform Long]: Cell membrane ; Single-pass type I membrane protein . Membrane raft . Cell junction . Localizes to the lateral border recycling compartment (LBRC) and recycles from the LBRC to the junction in resting endothelial cells. .; [Isoform Delta15]: Cell junction . Localizes to the lateral border recycling compartment (LBRC) and recycles from the LBRC to the junction in resting endothelial cells.

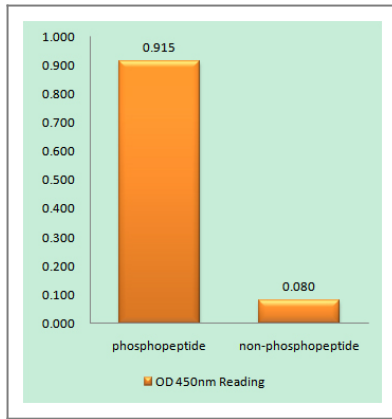
Tissue specificity

Expressed on platelets and leukocytes and is primarily concentrated at the borders between endothelial cells (PubMed:18388311 , PubMed:21464369) . Expressed in human umbilical vein endothelial cells (HUVECs) (at protein level) (PubMed:19342684 , PubMed:17580308) . Expressed on neutrophils (at protein level) (PubMed:17580308) . Isoform Long predominates in all tissues examined (PubMed:12433657) . Isoform Delta12 is detected only in trachea (PubMed:12433657) . Isoform Delta14-15 is only detected in lung (PubMed:12433657) . Isoform Delta14 is detected in all tissues examined with the strongest expression in heart (PubMed:12433657) . Isoform Delta15 is expressed in brain , testis , ovary , cell surface of platelets , human umbilical vein endothelial cells (HUVECs) , Jurkat T-cell leukemia , human erythroleukemia (HEL) and U-937 histiocytic lymphoma cell lines (at protein level) (PubMed:12433657 , PubMed:18388311) .

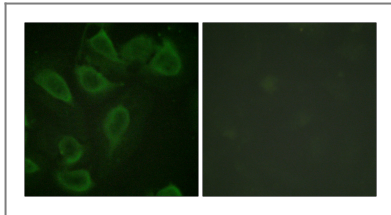
Function

Function:This protein is a cell adhesion molecule expressed on platelets and at endothelial cell intercellular junctions. ,online information:CD31 entry ,online information:PECAM-1 ,online information:The Singapore human mutation and polymorphism database ,PTM:Phosphorylated on Ser and Tyr residues after cellular activation. ,similarity:Contains 6 Ig-like C2-type (immunoglobulin-like) domains. ,tissue specificity:Long isoform predominates all tissues examined , isoform Delta12 was detected only in trachea and isoform Delta14-15 only in lung , isoform Delta14 was detected in all tissues examined with the strongest expression in heart. ,

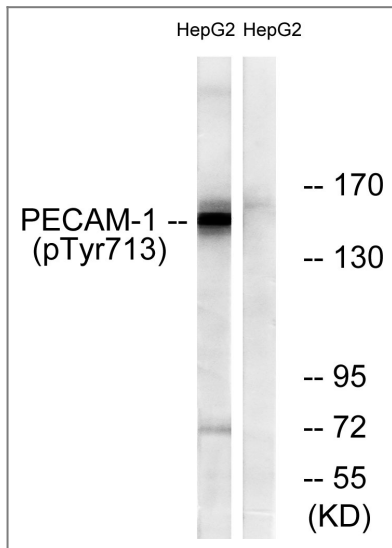
Validation Data



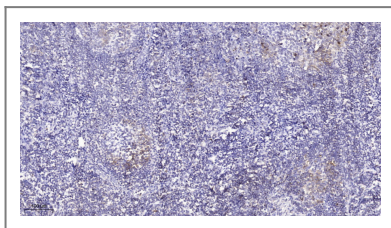
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PECAM-1 (Phospho-Tyr713) Antibody



Immunofluorescence analysis of HeLa cells, using PECAM-1 (Phospho-Tyr713) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells, using PECAM-1 (Phospho-Tyr713) Antibody. The lane 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°C overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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