



# CD31 Monoclonal Antibody

<b>Catalog No</b>	YP-Ab-16828
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	PDGFRA
<b>Protein Name</b>	Alpha-type platelet-derived growth factor receptor
<b>Immunogen</b>	Purified recombinant fragment of human CD31 expressed in E. Coli.
<b>Specificity</b>	CD31 Monoclonal Antibody detects endogenous levels of CD31 protein.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	PECAM1; Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; GPIIA'; PECA1; CD antigen CD31
<b>Observed Band</b>	
<b>Cell Pathway</b>	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.
<b>Tissue Specificity</b>	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 erythrocyte

**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.,

**Background**

The protein encoded by this gene is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. [provided by RefSeq, May 2010],

**matters needing attention**

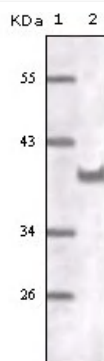
Avoid repeated freezing and thawing!

**Usage suggestions**

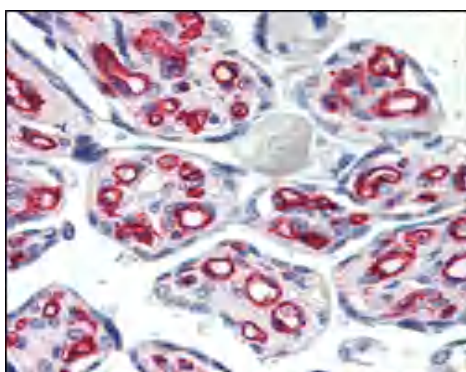
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



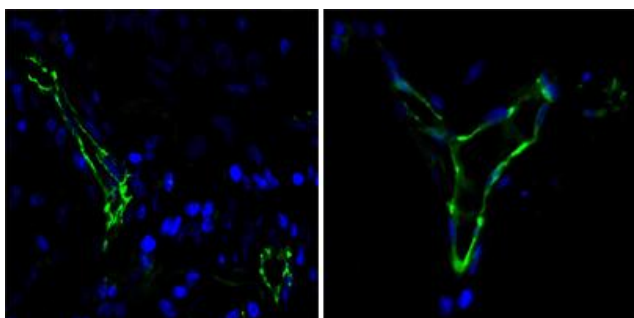
## Products Images



Western Blot analysis using CD31 Monoclonal Antibody against truncated CD31 recombinant protein.



Immunohistochemistry analysis of paraffin-embedded human placenta tissues with AEC staining using CD31 Monoclonal Antibody.



Immunofluorescence analysis of paraffin-embedded human lung cancer(left) and breast cancer(right) cells using CD31 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.