

## Product datasheet for **TA384960S**

### CD31 (PECAM1) Rabbit Monoclonal Antibody [Clone ID: R07-6A1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	R07-6A1
Applications:	IHC, WB
Recommended Dilution:	WB: 1/1000-1/5000 IHC: 1/20-1/100
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human CD31
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 83 kDa; Observed MW: 130 kDa
Gene Name:	platelet and endothelial cell adhesion molecule 1
Database Link:	<a href="#">Entrez Gene 5175 Human P16284</a>



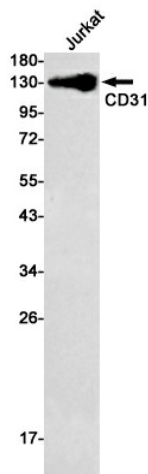
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**Background:**

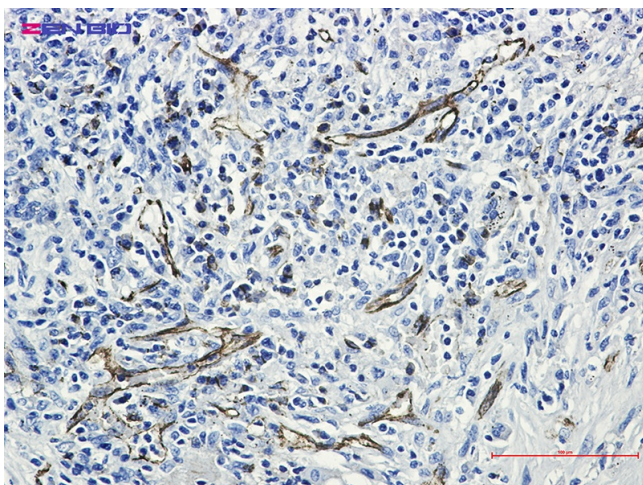
Swiss-Prot Acc.P16284.Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions (PubMed:19342684, PubMed:17580308). Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes (PubMed:19342684). Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions (PubMed:27958302). Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils (PubMed:17580308). Homophilic ligation of PECAM1 prevents macrophage-mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal (PubMed:12110892). Promotes macrophage-mediated phagocytosis of apoptotic leukocytes by tethering them to the phagocytic cells; PECAM1-mediated detachment signal appears to be disabled in apoptotic leukocytes (PubMed:12110892). Modulates bradykinin receptor BDKRB2 activation (PubMed:18672896). Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in endothelial cells (PubMed:18672896). Induces susceptibility to atherosclerosis .

**Synonyms:**

CD31; CD31/EndoCAM; EndoCAM; FLJ58394; PECAM-1

**Product images:**

Western blot detection of CD31 in Jurkat cell lysates using CD31 Rabbit mAb(1:500 diluted).Predicted band size:83kDa.Observed band size:130kDa.



Immunohistochemistry of CD31 in paraffin-embedded Human lung cancer tissue using CD31 Rabbit mAb at dilution 1/50