

## Product datasheet for **CF504773**

### CD31 (PECAM1) Mouse Monoclonal Antibody [Clone ID: OTI1H6]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1H6
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Dog
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PECAM1(NP_00433) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	82.4 kDa
Gene Name:	platelet and endothelial cell adhesion molecule 1
Database Link:	<a href="#">NP_000433</a> <a href="#">Entrez Gene 610775 Dog</a> <a href="#">Entrez Gene 5175 Human</a> <a href="#">P16284</a>

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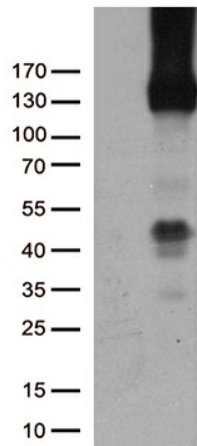
**Background:** The protein encoded by this gene is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved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

**Synonyms:** CD31; CD31/EndoCAM; endoCAM; GPIIA'; PECA1; PECAM-1

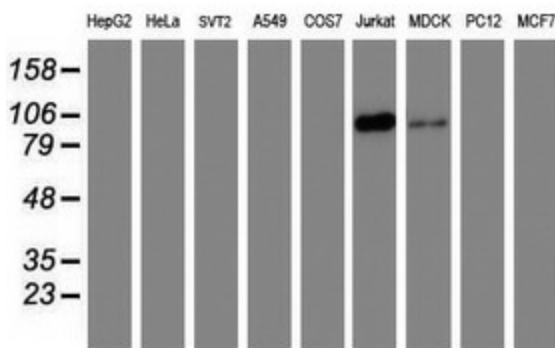
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs), Leukocyte transendothelial migration

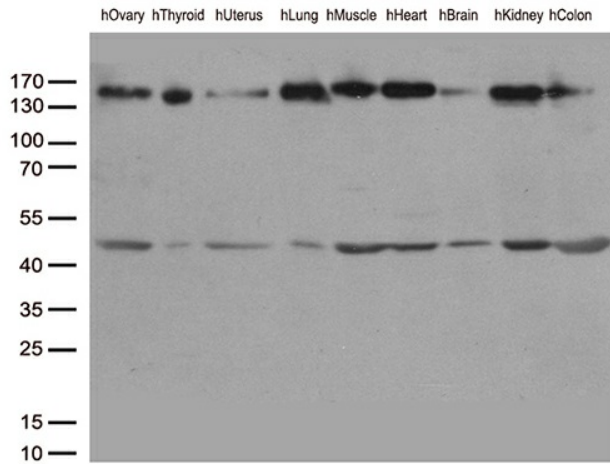
### Product images:



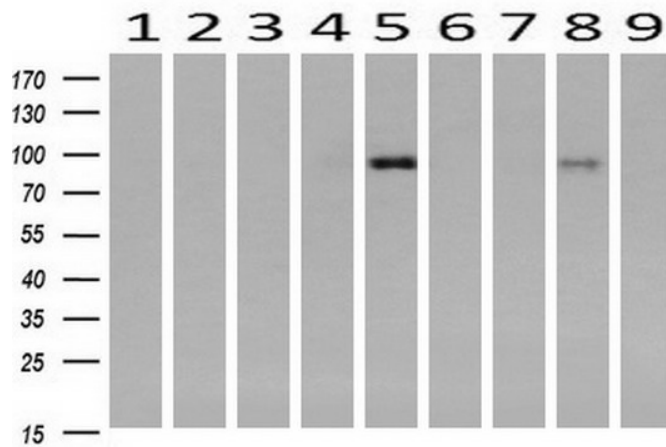
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PECAM1 ([RC208654], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PECAM1. Positive lysates [LY424716] (100ug) and [LC424716] (20ug) can be purchased separately from OriGene.



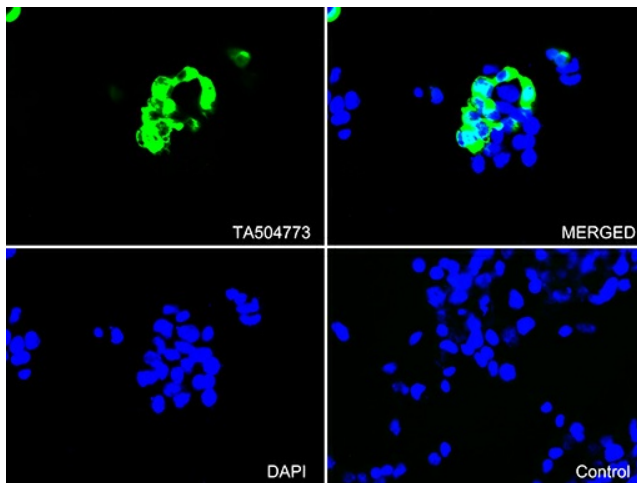
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PECAM1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



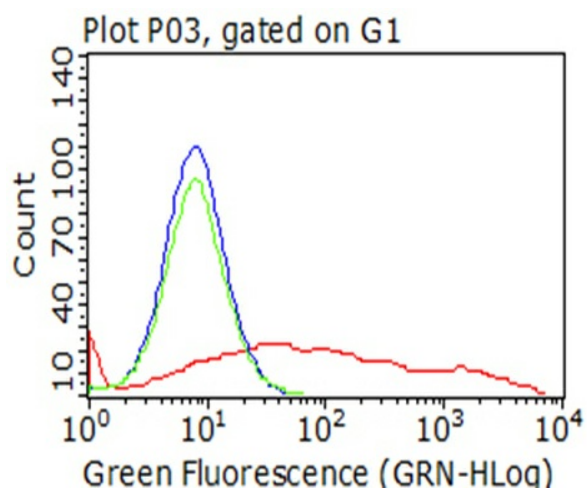
Western blot analysis of extracts (35ug) from 9 different human tissues by using anti-PECAM1 monoclonal antibody. 1:250



Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-PECAM1 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: Colon).



Immunofluorescent staining of 293T cells transiently transfected by pCMV6-ENTRY PECAM1 ([RC208654]) using anti-PECAM1 mouse monoclonal antibody ([TA504773], green, upper left; merged, upper right). Cell nuclei were stained with DAPI (blue, lower left). 293T cells transfected with empty vector plasmid served as negative control ( merged, lower right) (1:100).



Living HEK293T cells transfected with either [RC208654] plasmid (red) or empty vector (blue) were immunostained by anti-PECAM1 antibody ([TA504773]) or isotype control antibody (green), and then analyzed by flow cytometry (1:100).