

Product datasheet for UM500031CF

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

CD31 (PECAM1) Mouse Monoclonal Antibody [Clone ID: UMAB31]

Product data:

Product Type: Primary Antibodies

Clone Name: UMAB31

Applications: FC, IHC, WB

Recommended Dilution: WB 1:500, IHC 1:100

Reactivity: Human
Host: Mouse
Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full lenth human recombinant protein of human PECAM1(NP_000433) 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: NP 000433

Entrez Gene 5175 Human

P16284





CD31 (PECAM1) Mouse Monoclonal Antibody [Clone ID: UMAB31] - UM500031CF

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

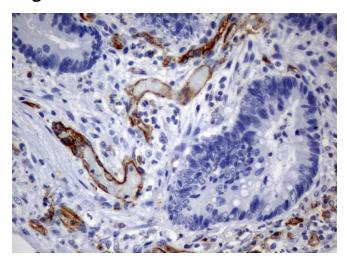
by RefSeq]

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

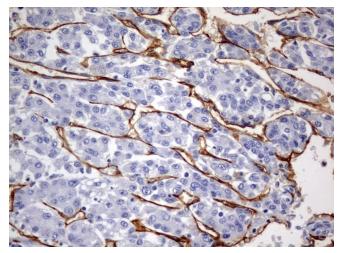
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

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

Product images:

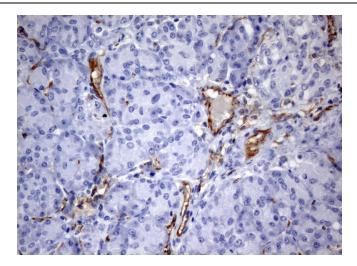


Immunohistochemical staining of paraffinembedded Adenocarcinoma of colon tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

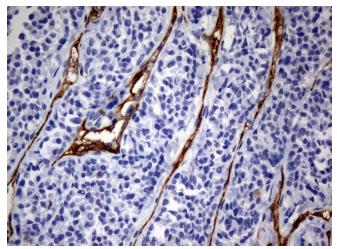


Immunohistochemical staining of paraffinembedded Carcinoma of liver tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

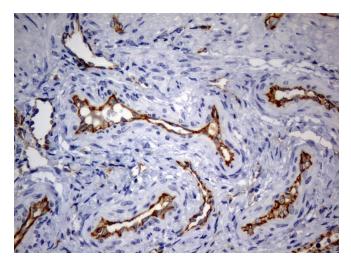




Immunohistochemical staining of paraffinembedded pancreas tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

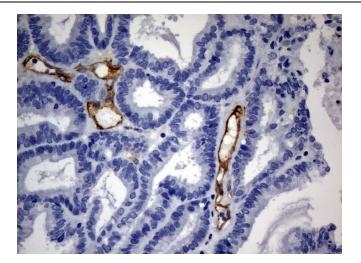


Immunohistochemical staining of paraffinembedded Carcinoma of thyroid tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

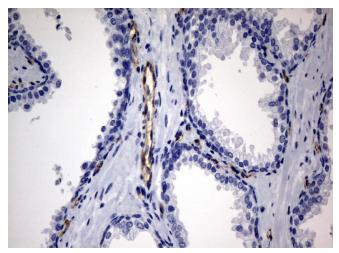


Immunohistochemical staining of paraffinembedded endometrium tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

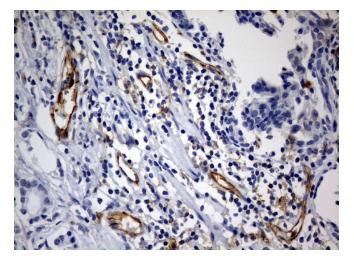




Immunohistochemical staining of paraffinembedded Adenocarcinoma of endometrium tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

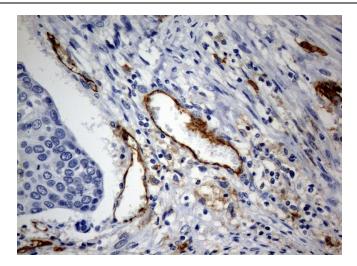


Immunohistochemical staining of paraffinembedded prostate tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

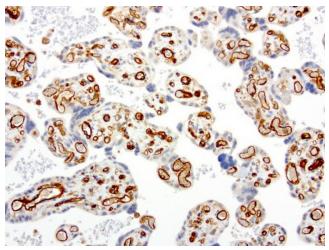


Immunohistochemical staining of paraffinembedded Carcinoma of prostate tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

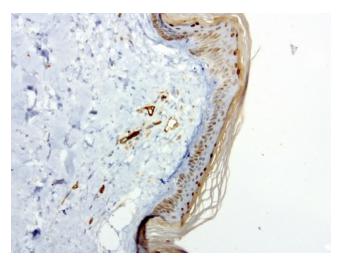




Immunohistochemical staining of paraffinembedded Carcinoma of bladder tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

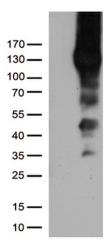


Immunohistochemical staining of paraffinembedded human placenta using anti-PECAM clone UMAB31 mouse monoclonal antibody ([UM500031]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer using pressure chamber for 3 minutes at 110C. Cytoplasmic and membraneous staining is seen in the endothelia cells and weak staining in the trophoblast.

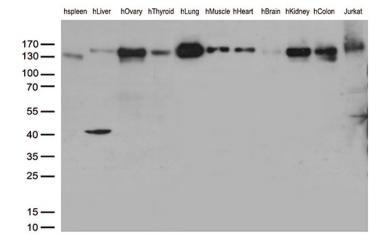


Immunohistochemical staining of paraffinembedded human skin using anti-PECAM clone UMAB31 mouse monoclonal antibody ([UM500031]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer using pressure chamber for 3 minutes at 110C. Cytoplasmic and membraneous staining is seen in the vasular endothelia cells.

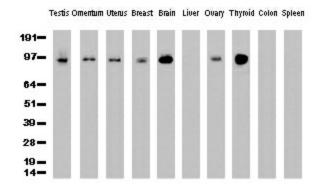




HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PECAM1 ([RC208654], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PECAM1 mouse monoclonal antibody.1:500`

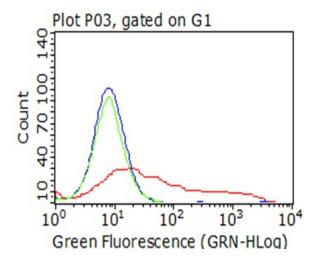


Western blot analysis of extracts (35ug) from 10 different human tissues and Jurkat cell lines by using anti-PECAM1 monoclonal antibody. 1:250



Western Blot analysis of 10 different human tissue lysates (10ug) by using anti-PECAM1 monoclonal antibody (clone UMAB31, 1:500)





Living HEK293T cells transfected with either [RC208654] plasmid (red) or empty vector (blue) were immunostained by anti-PECAM1 antibody ([UM500031]) or isotype control antibody (green), and then analyzed by flow cytometry (1:100).