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Product datasheet for UM570032

CD31 (PECAM1) Mouse Monoclonal Antibody [Clone ID: UMAB32]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB32
Applications:	10k-ChIP, FC, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PECAM1(NP_000433) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
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
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]

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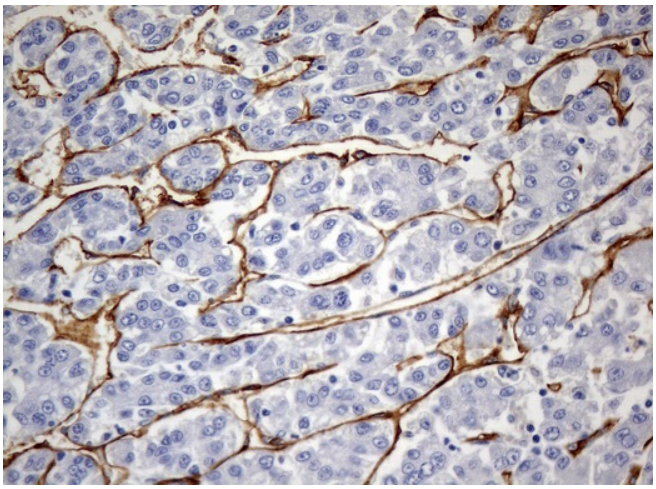
Synonyms: CD31; CD31/EndoCAM; endoCAM; GPIIA'; PECA1; PECAM-1

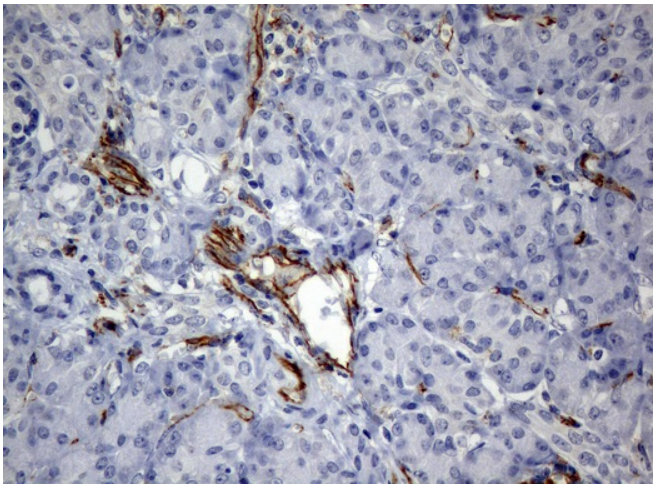
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

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

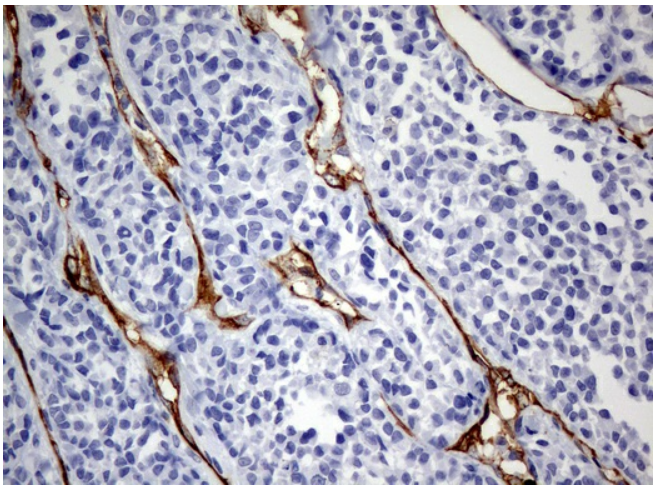
Product images:



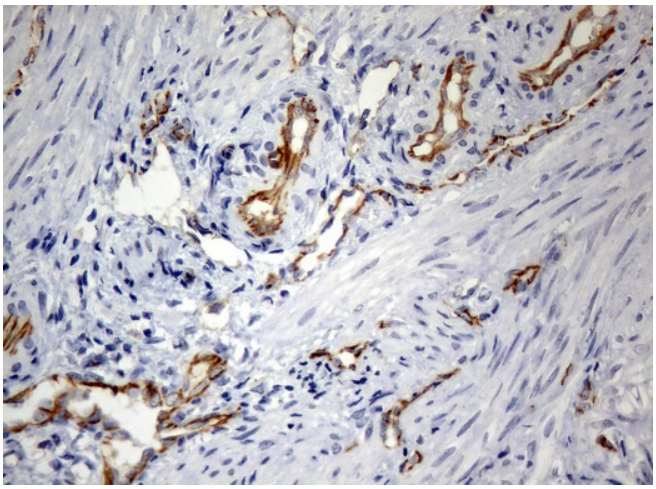
Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB32, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



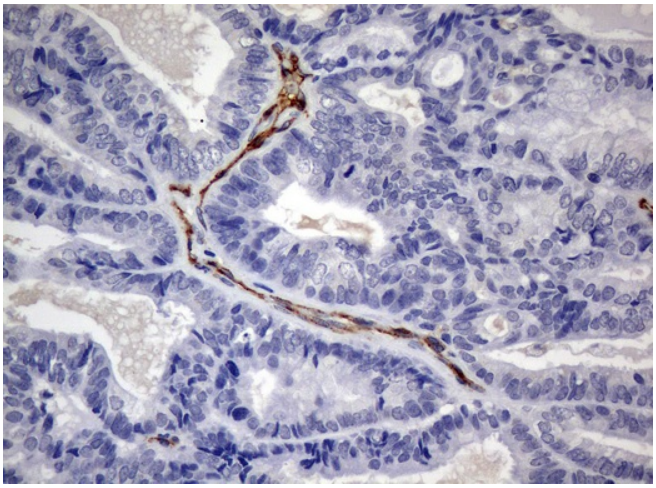
Immunohistochemical staining of paraffin-embedded pancreas tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB32, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



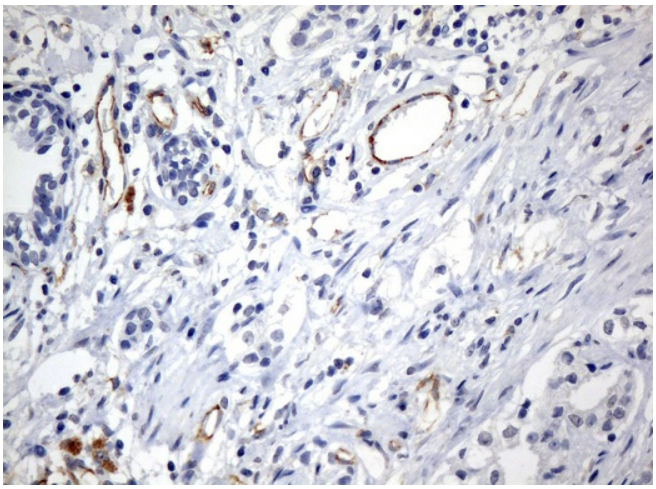
Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB32, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



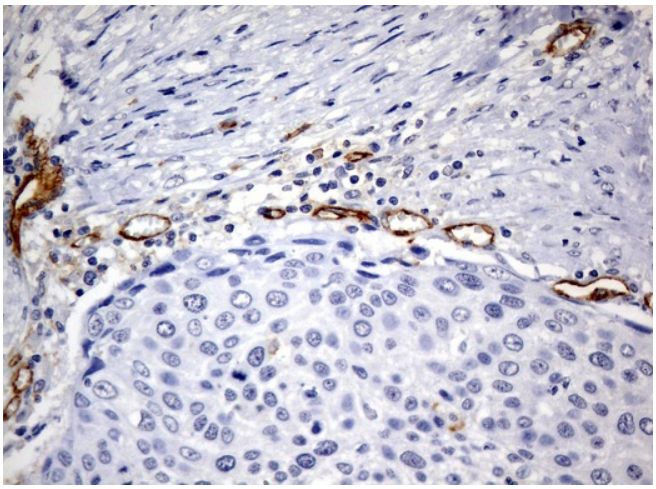
Immunohistochemical staining of paraffin-embedded endometrium tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB32, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



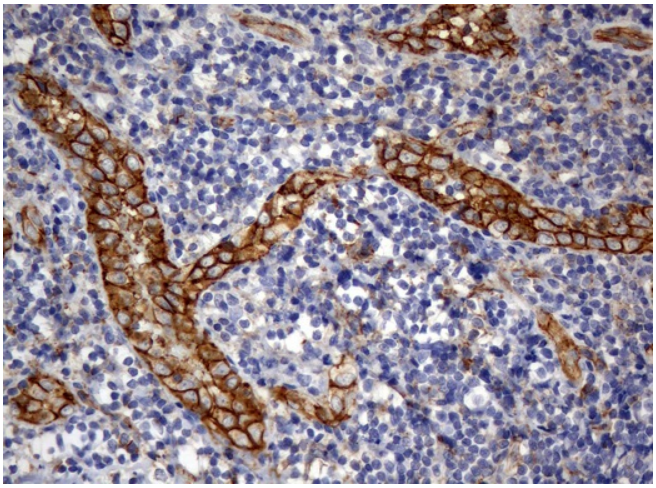
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of endometrium tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB32, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



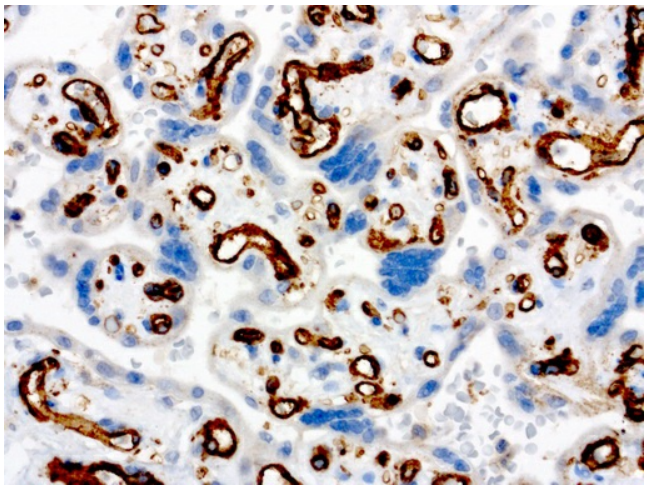
Immunohistochemical staining of paraffin-embedded Carcinoma of prostate tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB32, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



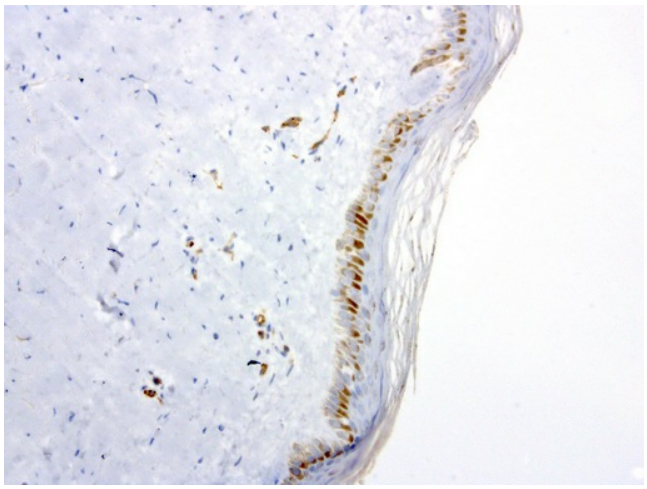
Immunohistochemical staining of paraffin-embedded Carcinoma of bladder tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB32, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



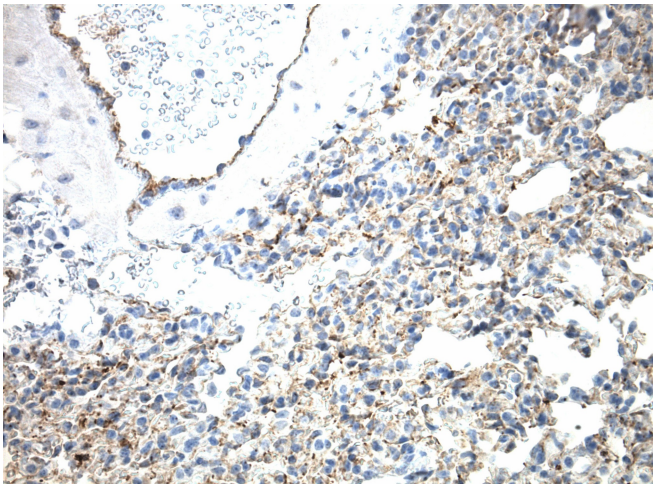
Immunohistochemical staining of paraffin-embedded lymph node tissue using anti-PECAM1mouse monoclonal antibody. (Clone UMAB32, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



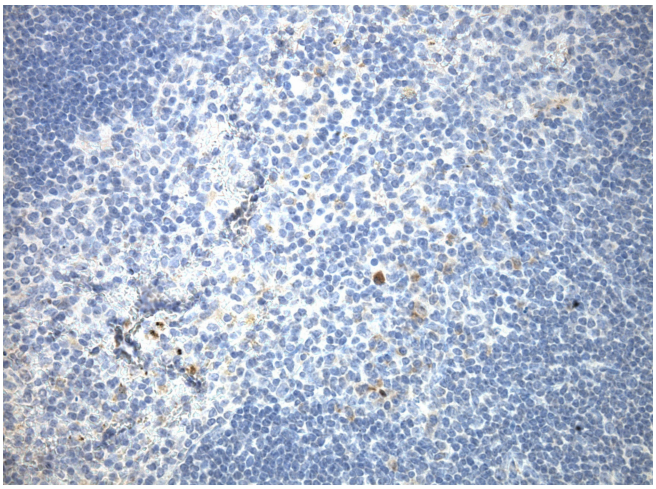
Immunohistochemical staining of paraffin-embedded human placenta using anti-PECAM clone UMAB32 mouse monoclonal antibody ([UM500032]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer using pressure chamber for 3 minutes at 110C. Cytoplasmic and membraneous staining is seen in the endothelia cells and weak staining in the trophoblast.



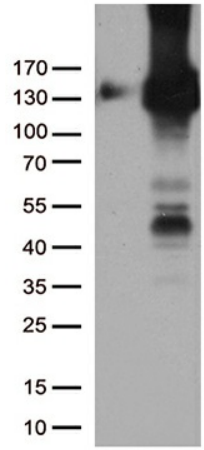
Immunohistochemical staining of paraffin-embedded human skin using anti-PECAM clone UMAB32 mouse monoclonal antibody ([UM500032]) at 1:100 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI Citrate pH6.0 HIER buffer using pressure chamber for 3 minutes at 110C. Cytoplasmic and membraneous staining is seen in the vasular endothelia cells.



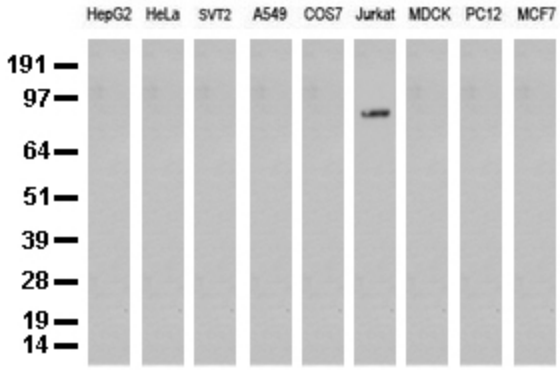
Immunohistochemical staining of paraffin-embedded mouse lung tissue using anti-CD31 (PECAM1) clone UMAB32 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500032] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



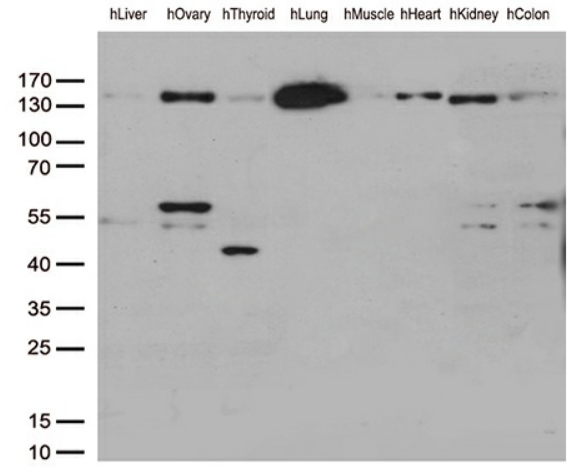
Immunohistochemical staining of paraffin-embedded mouse spleen tissue using anti-CD31 (PECAM1) clone UMAB32 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500032] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



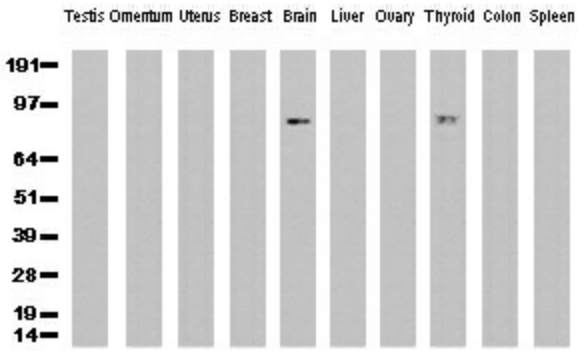
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PECAM1 (Cat# [RC208654], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PECAM1 mouse monoclonal antibody (Cat# [UM500032]).



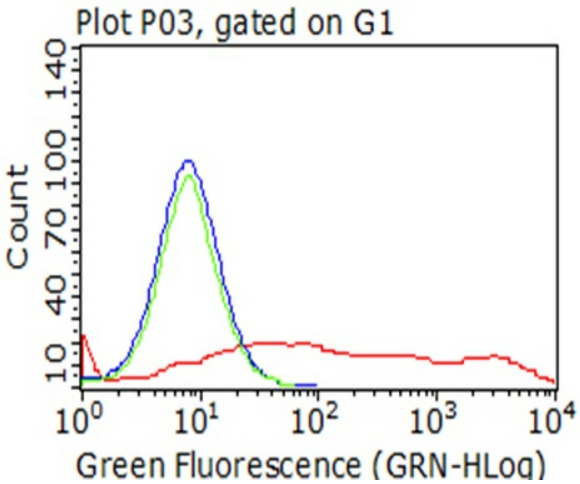
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PECAM1 monoclonal antibody (Clone UMAB32) at 1:500.



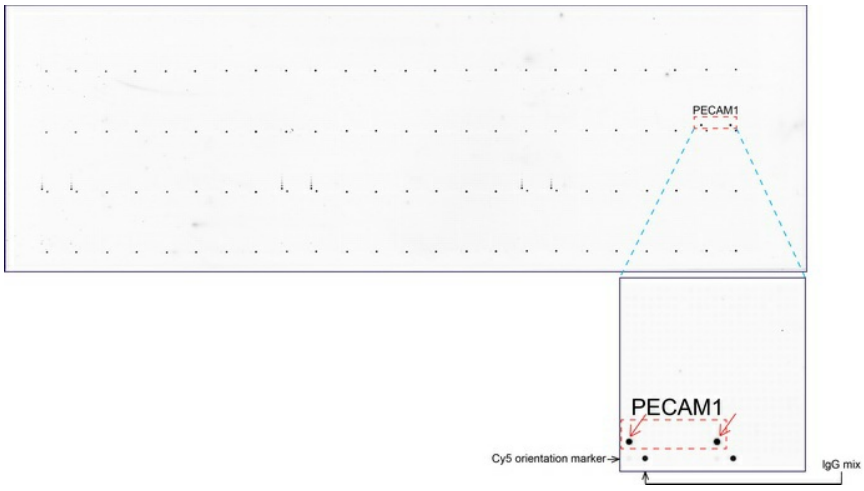
Western blot analysis of extracts (35ug) from 8 different human tissues by using anti-PECAM1 monoclonal antibody. 1:250



Western Blot analysis of 10 different human tissue lysates (10ug) by using anti-PECAM1 monoclonal antibody (clone UMAB32, 1:500)



Living HEK293T cells transfected with either [RC208654] plasmid (red) or empty vector (blue) were immunostained by anti-PECAM1 antibody ([UM500032]) or isotype control antibody (green), and then analyzed by flow cytometry (1:100).



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-PECAM1 mouse monoclonal antibody (Clone UMAB32). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification. These data show that UltraMAB anti-PECAM1 (Clone UMAB32) very specifically recognizes PECAM1 antigen on OriGene protein microarray chip.