**Product datasheet for UM570031**

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

**Product data:**

- **Product Type:** Primary Antibodies
- **Clone Name:** UMAB31
- **Applications:** FC, IHC, WB
- **Recommend Dilution:** WB 1:500, IHC 1:100
- **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 by affinity chromatography
- **Predicted Protein Size:** 82.4 kDa
- **Gene Name:** Homo sapiens platelet and endothelial cell adhesion molecule 1 (PECAM1)
- **Database Link:** [NP_000433 Entrez Gene 5175 Human](https://www.ncbi.nlm.nih.gov/gene/5175)
- **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; EndoCAM; endoCAM; GPIIA; PECA1; PECAM-1
- **Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
- **Protein Pathways:** Cell adhesion molecules (CAMs), Leukocyte transendothelial migration

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Immunohistochemical staining of paraffin-embedded 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 110°C. Cytoplasmic and membraneous staining is seen in the vascular 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)

Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-PECAM1 mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)
Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-PECAM1 mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH 6.0, 120°C for 3 min)

Immunohistochemical staining of paraffin-embedded pancreas tissue using anti-PECAM1 mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH 6.0, 120°C for 3 min)

Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-PECAM1 mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH 6.0, 120°C for 3 min)
Immunohistochemical staining of paraffin-embedded endometrium tissue using anti-PECAM1 mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH 6.0, 120°C for 3min)

Immunohistochemical staining of paraffin-embedded Adenocarcinoma of endometrium tissue using anti-PECAM1 mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH 6.0, 120°C for 3min)

Immunohistochemical staining of paraffin-embedded prostate tissue using anti-PECAM1 mouse monoclonal antibody. (Clone UMAB31, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH 6.0, 120°C for 3min)
Immunohistochemical staining of paraffin-embedded Carcinoma of prostate tissue using anti-PECAM1 mouse monoclonal antibody. (Clone UMAB31, 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-PECAM1 mouse monoclonal antibody. (Clone UMAB31, 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 UMAB31 mouse monoclonal antibody (UM50031) 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 110°C. Cytoplasmic and membranous staining is seen in the endothelia cells and weak staining in the trophoblast.

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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).