

Product Datasheet

PECAM-1 Antibody (orb1410531)

Catalog Number	orb1410531
Category	Antibodies
Description	Mouse monoclonal antibody to CD31
Target	PECAM-1
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG1
Conjugation	Unconjugated
Reactivity	Human
Form/Appearance	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% rAlbumin & 0.05% azide. Also available WITHOUT rAlbumin & azide at 1.0mg/ml.
Immunogen	Recombinant fragment (around aa 1-350) of human CD31 protein (exact sequence is proprietary)
UniProt ID	P16284
MW	~100kDa (endothelium) and ~130kDa (platelets)
Tested applications	IHC

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Specificity	Expressed on platelets and leukocytes and is primarily concentrated at the borders between endothelial cells (PubMed:18388311, PubMed:21464369). Expressed in human umbilical vein endothelial cells (HUVECs) (at protein level) (PubMed:19342684, PubMed:17580308). Expressed on neutrophils (at protein level) (PubMed:17580308). Isoform Long predominates in all tissues examined (PubMed:12433657). Isoform Delta12 is detected only in trachea (PubMed:12433657). Isoform Delta14-15 is only detected in lung (PubMed:12433657). Isoform Delta14 is detected in all tissues examined with the strongest expression in heart (PubMed:12433657). Isoform Delta15 is expressed in brain, testis, ovary, cell surface of platelets, human umbilical vein endothelial cells (HUVECs), Jurkat T-cell leukemia, human erythroleukemia (HEL) and U-937 histiocytic lymphoma cell lines (at protein level) (PubMed:12433657, PubMed:18388311).
Clone Number	PECAM1/4341
Expression System	CHO cells
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.

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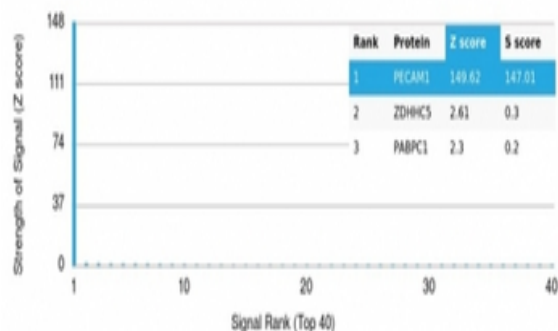
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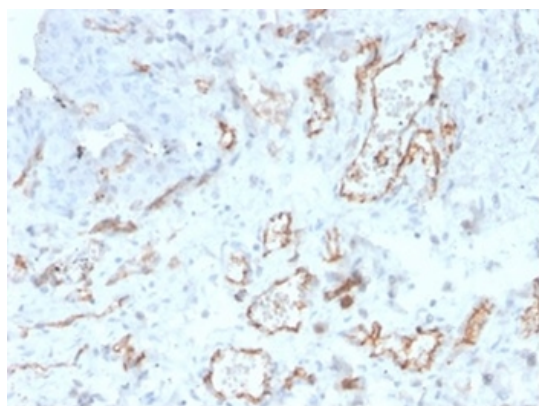
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Analysis of Protein Array containing more than 19000 full-length human proteins using CD31 Mouse Monoclonal Antibody (PECAM1/4341) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human cervix stained with CD31 Mouse Monoclonal Antibody (PECAM1/4341).

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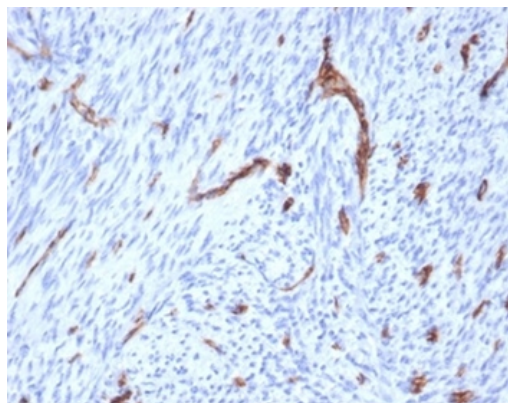
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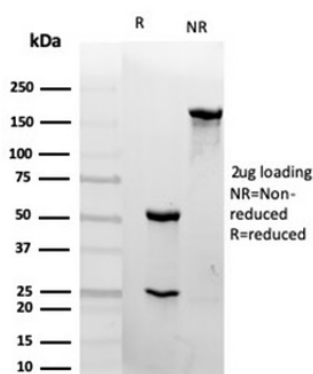
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Formalin-fixed, paraffin-embedded human uterus stained with CD31 Mouse Monoclonal Antibody (PECAM1/4341). HIER: Tris/EDTA, pH9.0, 45 min. 2°C: HRP-polymer, 30 min. DAB, 5 min.



SDS-PAGE Analysis of Purified CD31 Mouse Monoclonal Antibody (PECAM1/4341). Confirmation of Integrity and Purity of Antibody.

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