CD31 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD31, Monoclonal Antibody
Full Product Name	CD31 (PT0035) Mouse mAb
Product Gene Name	anti-CD31 antibody
Product Synonym Gene Name	CD31; PECA1; GPIIA'; PECAM-1; endoCAM; CD31/EndoCAM; PECAM1
Clonality	Monoclonal
Isotype	IgG1, kappa
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
OMIM	173445
3D Structure	ModBase 3D Structure for P16284
Immunogen	Synthesized peptide derived from human CD31
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD31 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-CD31 antibody	IHC-P: 1:100-500 WB: 1:500-2000
Related Product Information for anti-CD31 antibody	MBS8541329 is an antibody targeting CD31. Also known as CD31 (PT0035) Mouse mAb. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-CD31 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD31. It may not necessarily be applicable to this product.

NCBI GI #	313760624
NCBI GeneID	5175
NCBI Accession #	NP_000433.4
UniProt Primary Accession #	P16284
UniProt Related Accession #	P16284
GenBank Nucleotide #	NP_000433.4

NCBI Official Full Name	platelet endothelial cell adhesion molecule
NCBI Official Synonym Full Names	platelet and endothelial cell adhesion molecule 1
NCBI Official Symbol	PECAM1
NCBI Official Synonym Symbols	CD31; PECA1; GPIIA'; PECAM-1; endoCAM; CD31/EndoCAM
UniProt Protein Name	Platelet endothelial cell adhesion molecule
UniProt Synonym Protein Names	EndoCAM; GPIIA'; PECA1
Protein Family	Platelet endothelial cell adhesion molecule
UniProt Gene Name	PECAM1
UniProt Synonym Gene Names	PECAM-1
UniProt Entry Name	PECA1_HUMAN
NCBI Protein Information	platelet endothelial cell adhesion molecule
NCBI Summary for CD31	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, May 2010]
UniProt Comments for CD31	PECAM-1: a cell adhesion molecule expressed on platelets and at endothelial cell intercellular junctions. Plays a role in modulation of integrin-mediated cell adhesion, transendothelial migration, angiogenesis, apoptosis, cell migration, negative regulation of immune cell signaling, autoimmunity, macrophage phagocytosis, IgE-mediated anaphylaxis and thrombosis. Undergoes alternative splicing, generating multiple isoforms in vascular beds of various tissues. Protein type: Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 17q23.3 Cellular Component: extracellular space; platelet alpha granule membrane; integral to membrane; plasma membrane; cell junction Molecular Function: protein binding Biological Process: platelet activation; extracellular matrix organization and biogenesis; platelet degranulation; diapedesis; cell recognition; blood coagulation; signal transduction; cell adhesion; leukocyte migration; phagocytosis
Research Articles on CD31	**1.** Multivariate analysis showed VEGF and MVD were not independent prognostic factors for OS. High-grade serous ovarian cancer (HGSOC) intratumoural vasculature did not undergo significant changes during disease progression. High concentration of CD31((+)) vessels seems to promote recruitment of effector TILs.
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