CD31 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD31, Monoclonal Antibody
Full Product Name	CD31 (PECAM-1, Platelet gpIIa Molecule) (MaxLight 650)
Product Gene Name	anti-CD31 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	6A24
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservatives added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CD31 (PECAM-1) protein. On Western Blots, it identifies a single band at ~130kD. Reactivity has been confirmed with HUVEC (human umbilical vein endothelial cells) lysates by Western Blot and with methacarn-fixed human tonsil tissue by immunohistochemistry.
Preparation and Storage	Store at 4 degree C. Do Not Freeze.
Molecular Weight	82,536 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (62396775..62404856, complement). Location: 17q23.3
OMIM	173445
3D Structure	ModBase 3D Structure for P16284
Immunogen	Leukocytes from LGL-type leukemia patient
Conjugate	MaxLight650
Product Categories/Family for anti-CD31 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD31 antibody	Flow Cytometry (FC/FACS), Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for anti-CD31 antibody	MBS6259833 is an antibody targeting CD31. Also known as CD31 (PECAM-1, Platelet gpIIa Molecule) (MaxLight 650). Reactive in Human. Host: Mouse.
Product References and Citations for anti-CD31 antibody	1. Prager, et al., J. Exp. Med. 184(1): 41-50 (1996). 2. Simmons, et al., J. Exp. Med. 171(6): 2147-2152 (1990). 3. Bird, I.N., et al., J. Cell. Sci. 112: 1989-1997 (1999). 4. Horenstein, A.L., et al., Biochem. 330: 1129-1135 (1998).
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 Secondary Accession #	Q6LDA9; Q8TBH1; Q96RF5; Q96RF6; Q9NP65; Q9NPB7; Q9NPG9; Q9NQS9; Q9NQT0; Q9NQT1; Q9NQT2
UniProt Related Accession #	P16284
GenBank Nucleotide #	NM_000442.4
NCBI Official Full Name	platelet endothelial cell adhesion molecule
NCBI Official Synonym Full Names	platelet/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; CD31 antigen
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.** The increased CD105/CD31 and VEGF/CD31 ratios in gingiva confirms an augmented proliferative fraction of the endothelium in gingiva with chronic periodontitis.
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