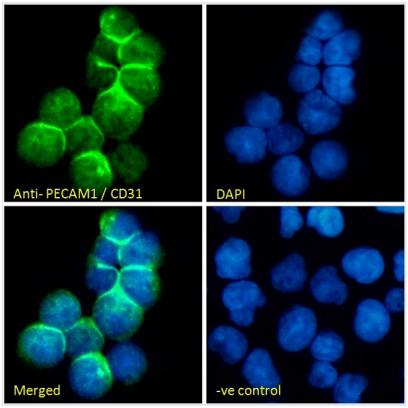
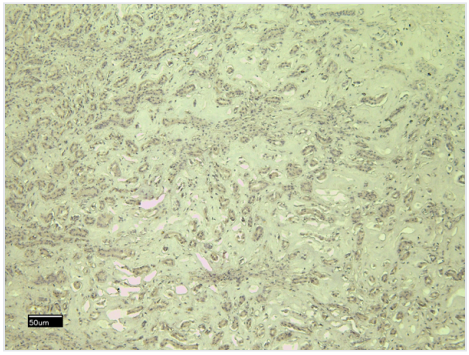
PECAM1 Antibody – Goat

PRODUCT OVERVIEW

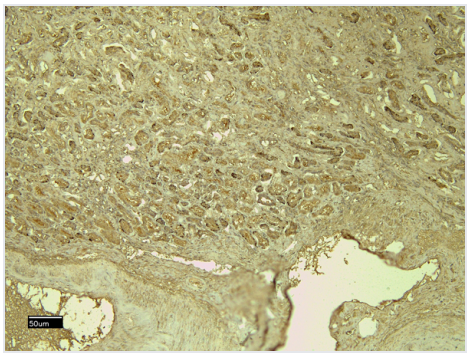
Product Name	PECAM1/CD31, Antibody
Full Product Name	Goat anti-PECAM1/CD31 (aa218-231) Antibody
Product Gene Name	anti-PECAM1 antibody
Product Synonym Names	PECAM1; platelet/endothelial cell adhesion molecule 1; CD31; CD31/EndoCAM; GPIIA'; PECA1; PECAM-1; endoCAM; CD31 antigen; platelet endothelial cell adhesion molecule; PECAM1/CD31 (aa218-231)
Host	Goat
Species Reactivity	Human
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Concentration	100ug specific antibody in 200ul (lot specific)
Preparation and Storage	Aliquot and store at -20 degree C. Minimize freezing and thawing.
Antibody/Peptide Pairs	PECAM1 peptide (MBS428998) is used for blocking the activity of PECAM1 antibody (MBS423952)
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	Peptide with sequence C-TSESTKSELVTVTE, from the internal region of the protein sequence according to NP_000433.4.
Epitope	internal region
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Applications Tested/Suitable for anti-PECAM1 antibody	Pep-ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry (IHC)
Application Notes for anti-PECAM1 antibody	Peptide ELISA: antibody detection limit dilution 1:128000 IHC: Paraffin embedded Human Kidney. Recommended concentration: 4-6ug/ml. IF: Strong expression of the protein seen in the cell junctions/PM of Jurkat cells. Recommended concentration: 10ug/ml.
Related Product Information for anti-PECAM1 antibody	MBS423952 is an antibody targeting PECAM1. Also known as Goat anti-PECAM1/CD31 (aa218-231) Antibody. Reactive in Human. Host: Goat.
Product References and Citations for anti-PECAM1 antibody	Florey O, Durgan J, Muller W.; Phosphorylation of leukocyte PECAM and its association with detergent-resistant membranes regulate transendothelial migration.; Journal of immunology (Baltimore, Md. : 1950) 2010 Aug 185 (3): 1878-86.; PMID: 20581150
Other Notes	Small volumes of anti-PECAM1 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.



Immunocytochemistry (ICC) of anti-PECAM1 antibody
MBS423952 Immunofluorescence analysis of paraformaldehyde fixed Jurkat cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cell junction staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Immunohistochemistry (IHC) of anti-PECAM1 antibody
MBS423952 Negative Control showing staining of paraffin embedded Human Kidney, with no primary antibody.



Immunohistochemistry (IHC) of anti-PECAM1 antibody
MBS423952 (4ug/ml) staining of paraffin embedded Human Kidney. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PECAM1. 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 PECAM1	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 PECAM1	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 PECAM1	**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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