CD31 / PECAM1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD31 / PECAM1, Recombinant Protein
Full Product Name	Recombinant Human CD31 / PECAM1 Protein
Product Gene Name	CD31 / PECAM1 recombinant protein
Product Synonym Names	PECAM1, CD31, PECAM-1
Host	Human Cells
Form/Format	Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5
Purity/Purification	> 95 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	81,378 Da
OMIM	M37780 mRNA
Predicted N Terminal	Gln 28
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for CD31 / PECAM1 recombinant protein	The recombinant human CD31 consists of 580 amino acids and has a predicted molecular mass of 65.1 kDa. As a result of glycosylation, the molecular mass of rhCD31 is approximately 115 kDa in SDS-PAGE.
Related Product Information for CD31 / PECAM1 recombinant protein	Background: The Cluster of Differentiation 31 (CD31) adhesion molecule, also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1), is the only known member of the CAM family on platelets. CD31 protein is a 130-kDa transmembrane glycoprotein expressed by endothelial cells, platelets, monocytes, neutrophils, and certain T cell subsets. CD31 protein is also expressed in certain tumors, including epithelioid hemangioendothelioma, other vascular tumors, and histiocytic malignancies. CD31 plays a key role in removing aged neutrophils and tissue regeneration. CD31 protein mediates the homotypic or heterotypic cell adhesion by binding to itself or the leukocyte integrin alphavbeta3, and thus plays a role in neutrophil recruitment in inflammatory responses, transendothelial migration of leukocytes, as well as in cardiovascular development. Description: The mature form of human CD31 (EAW94208.1) extracellular domain (Met1-Lys 601) with five additional amino acids (DDDDK) at the C-terminus was expressed and purified.
Other Notes	Small volumes of CD31 / PECAM1 recombinant protein 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.
Searchable Terms for CD31 / PECAM1 purchase	MBS2545171 is a recombinant protein targeting CD31 / PECAM1. Also known as Recombinant Human CD31 / PECAM1 Protein. Host: Human Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD31 / PECAM1. It may not necessarily be applicable to this product.

NCBI GI #	119614614
NCBI GeneID	5175
NCBI Accession #	EAW94208.1

UniProt Secondary Accession #	Q6LDA9; Q8TBH1; Q96RF5; Q96RF6; Q9NP65; Q9NPB7; Q9NPG9; Q9NQS9; Q9NQT0; A8K3S7; D3DU31
UniProt Related Accession #	P16284
NCBI Official Full Name	platelet/endothelial cell adhesion molecule (CD31 antigen), isoform CRA_a
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; CD_antigen: CD31
UniProt Gene Name	PECAM1
UniProt Synonym Gene Names	PECAM-1
NCBI Protein Information	platelet endothelial cell adhesion molecule
NCBI Summary for CD31 / 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 CD31 / 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; Cell development/differentiation; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 17q23.3 Cellular Component: extracellular space; plasma membrane; platelet alpha granule membrane Molecular Function: protein binding Biological Process: cell recognition; diapedesis; extracellular matrix organization and biogenesis; leukocyte migration; phagocytosis; platelet degranulation; signal transduction
Research Articles on CD31 / PECAM1	**1.** The Leu125Val polymorphism of PECAM-1 and the level of soluble PECAM-1 are not associated with diabetic nephropathy in Caucasians with type 2 diabetes mellitus.
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