CD31 Antibody – Hamster Monoclonal

PRODUCT OVERVIEW

Product Name	CD31, Monoclonal Antibody
Full Product Name	CD31 (PECAM-1, Platelet gpIIa Molecule) (HRP)
Product Gene Name	anti-CD31 antibody
Clonality	Monoclonal
Isotype	IgG
Clone Number	2Q682
Host	Hamster
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes the 130-140kD protein, PECAM-1 found on mouse monocytes, platelets, granulocytes and endothelial cells. Effectively inhibits transmigration of activated polymorphonuclear cells and monocytes across the endothelium. In a mouse model for acute peritonis, blocks acute inflammation
Preparation and Storage	Store at -20 degree C.
Molecular Weight	69,823 Da
3D Structure	ModBase 3D Structure for Q08481
Immunogen	CD31 (PECAM-1).
Conjugate	HRP
Product Categories/Family for anti-CD31 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD31 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD31 antibody	MBS6243729 is an antibody targeting CD31. Also known as CD31 (PECAM-1, Platelet gpIIa Molecule) (HRP). Reactive in Mouse. Host: Hamster.
Product References and Citations for anti-CD31 antibody	1. Yong, X., et al., Proc. Natl. Acad. Sci. 90: 5569-5573 (1993). 2. Bogen, S., et al., J. Exp. Med. 179: 1059-1064 (1994). 3. Newman, P.J., et al., J. Cell. Biol. 119: 239-246 (1992).
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 #	585658
NCBI GeneID	18613
NCBI Accession #	Q08481.1

UniProt Primary Accession #	Q08481
UniProt Secondary Accession #	Q3TES6; Q922E0; B1ARB1; B1ARB2
UniProt Related Accession #	Q08481
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; Pecam; C85791; PECAM-1
UniProt Protein Name	Platelet endothelial cell adhesion molecule
UniProt Synonym Protein Names	CD_antigen: CD31
Protein Family	Platelet endothelial cell adhesion molecule
UniProt Gene Name	Pecam1
UniProt Synonym Gene Names	Pecam; Pecam-1; PECAM-1
UniProt Entry Name	PECA1_MOUSE
NCBI Protein Information	platelet endothelial cell adhesion molecule; PECAM-1/CD31
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 Cellular Component: extracellular space; cell surface; smooth muscle contractile fiber; membrane; integral to membrane; plasma membrane; intracellular; cell junction; lipid raft; external side of plasma membrane Molecular Function: protein binding Biological Process: negative regulation of peptidyl-tyrosine phosphorylation; wound healing; positive regulation of tyrosine phosphorylation of Stat5 protein; negative regulation of actin filament polymerization; positive regulation of leukocyte migration; diapedesis; cell adhesion; regulation of cell migration; phagocytosis; Rho protein signal transduction
Research Articles on CD31	**1.** Cross-linking PECAM-1 on the surface of wild-type mouse platelets with antibodies against the 6th Ig domain decreased GPIbalpha on the platelet surface. No such decrease was seen in PECAM-1-deficient mouse platelets.
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