CD31 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD31, Monoclonal Antibody
Full Product Name	Anti-Mouse CD31 Monoclonal Antibody (FITC Conjugated) [390]
Product Gene Name	anti-CD31 antibody
Product Synonym Gene Name	Mouse CD31
Product Synonym Names	Pecam; Pecam-1; PECAM-1; CD31
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	390
Host	Rat
Species Reactivity	Mouse
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Concentration	0.5 mg/mL (lot specific)
Preparation and Storage	Store at 2-8 degree C and protect from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD31 (MBS2559283) Isotype Control: IgG2a Clone #2A3 (MBS2557854)
3D Structure	ModBase 3D Structure for Q08481
Conjugation	FITC
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD31 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD31 antibody	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is <= 2 ug per 10^6 cells in 100 ul volume or 100 ul of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Related Product Information for anti-CD31 antibody	CD31 is a 130-140 kD glycoprotein, also known as platelet endothelial cell adhesion molecule (PECAM-1) and EndoCAM. It is a member of the Ig superfamily, expressed on endothelial cells, platelets, granulocytes, monocytes/macrophages, dendritic cells, and T and B cell subsets, and is critical for cell-cell interactions. The primary ligands for CD31 have been reported to be CD38 and the vitronectin receptor (alphav beta3 integrin, CD51/CD61). Other reported functions of CD31 are neutrophil emigration to sites of inflammation and angiogenesis.
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.
Searchable Terms for CD31 purchase	MBS2559283 is an antibody targeting CD31. Also known as Anti-Mouse CD31 Monoclonal Antibody (FITC Conjugated) [390]. Reactive in Mouse. Host: Rat.

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 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
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.** These data demonstrate that PECAM-1 expression is dynamically regulated, albeit differently, in both CD4(+) and CD8(+) T cells
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-mouse-antibody/cd31/2559283