

Product datasheet

info@arigobio.com

ARG20906 anti-CD31 antibody [390] (low endotoxin)

Package: 100 μg Store at: -20°C

Summary

Product Description Azide free and low endotoxin Rat Monoclonal antibody [390] recognizes CD31

Tested Reactivity Ms

Tested Application BL, FACS, ICC/IF, IHC-Fr, IP

Specificity Mouse CD31. The clone 390 inhibits the aggregation of L cells transfected with a variant form of CD31.

Host Rat

Clonality Monoclonal

Clone 390

Isotype IgG2a, kappa

Target Name CD31
Species Mouse

Immunogen C3H/HeJ mouse hematopoietic progenitor cell line 32D

Conjugation Un-conjugated

Alternate Names EndoCAM; CD31/EndoCAM; PECAM-1; CD31; PECA1; CD antigen CD31; GPIIA'; endoCAM; Platelet

endothelial cell adhesion molecule

Application Instructions

Application table	Application	Dilution
	BL	Assay-dependent
	FACS	< 1 μg/10^6 cells
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Purification Note	Low endotoxin	
Buffer	PBS	
Concentration	0.5 mg/ml	
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw	

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Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 18613 Mouse</u>

Swiss-port # Q08481 Mouse

Gene Symbol PECAM1

Gene Full Name platelet/endothelial cell adhesion molecule 1

Background CD31 protein 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]

Function CD31 is a cell adhesion molecule which is required for leukocyte transendothelial migration (TEM)

under most inflammatory conditions (PubMed:19342684, PubMed:17580308). Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes (PubMed:19342684). Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions (PubMed:27958302). Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils (PubMed:17580308). Homophilic ligation of PECAM1 prevents macrophage-mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal (PubMed:12110892). Promotes macrophage-mediated phagocytosis of apoptotic leukocytes by tethering them to the phagocytic cells; PECAM1-mediated detachment signal appears to be disabled in apoptotic leukocytes (PubMed:12110892). Modulates bradykinin receptor BDKRB2 activation (PubMed:18672896). Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in endothelial cells (PubMed:18672896). Induces susceptibility to atherosclerosis.

Isoform Delta15: Does not protect against apoptosis. [UniProt]

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody;

Developmental Biology antibody; Signaling Transduction antibody; Endothelial Cell Marker antibody;

Microvascular Density Study antibody

Calculated Mw 83 kDa

PTM Phosphorylated on Ser and Tyr residues after cellular activation. Phosphorylated on tyrosine residues

by FER and FES in response to FCER1 activation (By similarity). In endothelial cells Fyn mediates

mechanical-force (stretch or pull) induced tyrosine phosphorylation.

Palmitoylation by ZDHHC21 is necessary for cell surface expression in endothelial cells and enrichment

in membrane rafts.