

Platelet And Endothelial Cell Adhesion Molecule 1 (PECAM1) Antibody

Catalogue No.: abx025991



Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions. Tyr-679 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. Prevents phagocyte ingestion of closely apposed viable cells by transmitting 'detachment' signals, and changes function on apoptosis, promoting tethering of dying cells to phagocytes (the encounter of a viable cell with a phagocyte via the homophilic interaction of PECAM1 on both cell surfaces leads to the viable cell's active repulsion from the phagocyte. During apoptosis, the inside-out signaling of PECAM1 is somehow disabled so that the apoptotic cell does not actively reject the phagocyte anymore. The lack of this repulsion signal together with the interaction of the eat-me signals and their respective receptors causes the attachment of the apoptotic cell to the phagocyte, thus triggering the process of engulfment). Modulates BDKRB2 activation (By similarity). Induces susceptibility to atherosclerosis.

Target: Platelet Endothelial Cell Adhesion Molecule (PECAM1)

Research Area: Cellular Differentiation and Adhesion, Infection Immunity

Clonality: Polyclonal

Reactivity: Mouse, Hamster

Tested Applications: ELISA, WB, FCM

Host: Rabbit

Recommended dilutions: WB: 1/2000, FCM: 1/25. Optimal dilutions/concentrations should be determined by the end user.

Datasheet

Version: 4.0.0
Revision date: 05 Jul 2025



Conjugation:	Unconjugated
Immunogen:	KLH-conjugated synthetic peptide between 508-536 amino acids from the C-terminal region of mouse CD31.
Isotype:	IgG
Form:	Liquid
Purification:	Purified through a protein A column, followed by peptide affinity purification.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	Q08481 (UniProt , ExPASy)
NCBI Accession:	NP_001027550.1, NP_032842.2
KEGG:	mmu:18613
String:	10090.ENSMUSP00000079664
Molecular Weight:	Calculated MW: 81.3 kDa
Buffer:	PBS containing 0.09% sodium azide.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.