PECAM1 monoclonal antibody, clone MEM-05 (PE)

Catalog # MAB5045 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native PECAM1.
Immunogen	Native purified PECAM1 from leukocytes of patient suffering from LGL-type leukaemia.
Host	Mouse
Theoretical MW (kDa)	130-140
Reactivity	Human
Specificity	This antibody reacts with CD31 (PECAM-1), a 130-140 KDa type I transmembrane glycoprotein expressed on monocytes, platelets, granulocytes, endothelial cells and stem cells of the myeloid lineage.
Form	Liquid
Conjugation	PE
Isotype	IgG1
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

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Gene Info — PECAM1

Entrez GeneID	5175
Gene Name	PECAM1
Gene Alias	CD31, PECAM-1
Gene Description	platelet/endothelial cell adhesion molecule
Omim ID	173445
Gene Ontology	Hyperlink
Gene Summary	CD31/EndoCAM|adhesion molecule
Other Designations	CD31 antigen|CD31/EndoCAM|PECAM-1, CD31/EndoCAM|adhesion molecule

Publication Reference

- PECAM-1-regulated signalling thresholds control tolerance in anergic transgenic B-cells.

  Wong MX, Hayball JD, Jackson DE.

  Molecular Immunology 2007 Oct; 45(6):1767.

- PECAM-1: a multi-functional molecule in inflammation and vascular biology.

  Woodfin A, Voisin MB, Nourshargh S.

  Arteriosclerosis, Thrombosis, and Vascular Biology 2007 Sep; 27(12):2514.

- Induction of hyporesponsiveness and impaired T lymphocyte activation by the CD31 receptor:ligand pathway in T cells.

  Prager E, Staffler G, Majdic O, Saemann M, Godar S, Zlabinger G, Stockinger H.

  Journal of Immunology (Baltimore, Md. : 1950) 2001 Feb; 166(4):2364.

  Application: Flow Cyt, Human, Human T cell clones EP 27.1 and O A.1

Pathway

- Cell adhesion molecules (CAMs)
- Leukocyte transendothelial migration

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Disease

- Acute Disease
- Angina Pectoris
- Arteriosclerosis
- Asthma
- Astrocytoma
- Atherosclerosis
- Brain Ischemia
- Bronchiolitis
- Cadaver
- Cerebral Hemorrhage
- Chorioamnionitis
- Cicatrix
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Diabetes Mellitus
- Diabetic Retinopathy
- Disease Progression
- Disease Susceptibility
- Fetal Membranes
- Genetic Predisposition to Disease
- Graft vs Host Disease
- Hematologic Diseases
- Hematologic Neoplasms
- Hypercholesterolemia

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- Hypertension
- Infant
- Infection
- Inflammation
- Intracranial Hemorrhages
- Kidney Failure
- Leukemia
- Malaria
- Metabolic Syndrome X
- Multiple Sclerosis
- Myocardial Infarction
- Obesity
- Obstetric Labor
- Osteosarcoma
- Pre-Eclampsia
- Premature Birth
- Recurrence
- Renal Insufficiency
- Respiratory Syncytial Virus Infections
- Stroke
- Subarachnoid Hemorrhage
- Syndrome
- Urinary Tract Infections
- Venous Thrombosis
- Werner syndrome

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