CD9 monoclonal antibody, clone B3346M

Catalog # MAB4159 Size 200 ug

Specification

Product Description	Mouse monoclonal antibody raised against native CD9.
Immunogen	Native purified CD9 from human bone marrow malignant cells from acute non-T, non-B leukemia.
Host	Mouse
Reactivity	Human
Specificity	The molecular weight of the recognized antigen is 24 KDa. Recognizes 22-43% of peripheral non-T cells (B cells). Recognizes blood platelets and a few granulocytic cells of normal bone marrow. Recognizes the distal convoluted tubule and the distal right tubule of nephrons.
Form	Lyophilized
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (2 ug/5x10^5 cells/test) Immunofluorescence (2 ug/5x10^5 cells/test) Immunohistochemistry (Frozen sections or cell smears) (1:25-1:50) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS (1 mg/mL BSA).
Storage Instruction	Store at 4°C on dry atmosphere. After reconstitution with 1 mL distilled water for a 0.2 mg/mL concentration, aliquot and store at -20° C. Aliquot to avoid repeated freezing and thawing. The addition of 0.1% (w/v) sodium azide is recommended for storage up to one month at 2-8°C.

Applications

- Immunohistochemistry (Frozen sections)
- Immunofluorescence

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- Flow Cytometry

Gene Info — CD9

Entrez GeneID	928
Gene Name	CD9
Gene Alias	5H9, BA2, BTCC-1, DRAP-27, GIG2, MIC3, MRP-1, P24, TSPAN29
Gene Description	CD9 molecule
Omim ID	143030
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known a s the tetraspanin family. Most of these members are cell-surface proteins that are characterized b y the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded prot ein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It can modulate cell adhesion and migration and also trigger platelet activa tion and aggregation. In addition, the protein appears to promote muscle cell fusion and support myotube maintenance. [provided by RefSeq
Other Designations	5H9 antigen|CD9 antigen|CD9 antigen (p24)|OTTHUMP00000041574|OTTHUMP00000041576| antigen defined by monoclonal antibody 602-29|growth-inhibiting gene 2 protein|leukocyte antigen MIC3|motility related protein|motility related protein-1|p24 antigen

Publication Reference

- Characteristics of platelet aggregation induced by the monoclonal antibody ALB6 (acute lymphoblastic leukemia antigen p 24). Inhibition of aggregation by ALB6Fab.

  Boucheix C, Soria C, Mirshahi M, Soria J, Perrot JY, Fournier N, Billard M, Rosenfeld C.

  FEBS Letters 1983 Sep; 161(2):289.

Pathway

- Hematopoietic cell lineage

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Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Infertility
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis

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