Mouse (monoclonal) Anti-Human Leukemia and Platelet Associated Antigen CD9

PRODUCT ANALYSIS SHEET

Catalog Number:	AHS0902
Lot Number:	See product label
Clone Number:	MM2/57
Quantity/Volume:	0.1 mg/1 mL
Form of Antibody:	Purified immunoglobulin in phosphate buffered saline with 0.1% bovine serum albumin.
Preservative:	10 mM sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification	Purified by protein A affinity chromatography.
Immunogen:	Human platelet glycoprotein.
Isotype:	IgG2b
Species Cross-Reactivity:	This antibody has been observed to cross-react with rabbit platelets and fibroblasts. This antibody is also observed to cross-react with mouse.
Specificity:	This antibody reacts with CD9, a member of the TM4 superfamily of cell surface proteins. This antibody immunoprecipitates a protein with M_r=25 kDa from ^{125}I-labeled human platelets and platelet membranes when analyzed under non-reducing conditions. In addition to platelets, the antigen is also expressed by granulocytes, eosinophils, monocytes, and stromal cells. Immunohistochemical staining of cryostat sections yields differential activity on lymphoid and epithelial tissues.
Applications:	This antibody is suitable for use in immunoprecipitation and immunohistochemistry with cryostat sections. This antibody has utility in the characterization of leukemias and lymphomas. Azide-free preparations of this antibody have been used in bone marrow purging in autologous bone marrow transplantation and in functional studies examining the association of platelets with CD41/CD51. The optimal concentration should be determined for each specific application.

This product is for research use only. Not for use in diagnostic procedures.

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Storage: Store at 2-8°C for up to one month. For long term storage, apportion the antibody into working aliquots and store at –20°C. Avoid repeated freeze/thaw cycles.

Expiration Date: Expires one year from date of receipt when stored as instructed.

References:

Boucheix, C., P. Benoit, P. Frachet, M. Billard, R.E Worthington, J. Gagnon, and G. Uzan (1990) Molecular cloning of the CD9 antigen. A new family of cell surface proteins. J. Biol. Chem. 266:117-122.

Lanza, F., D. Wolf, C.F. Fox, N. Kieffer, J.M. Seyer, V.A Fried, S.R. Coughlin, D.R Phillips, and L.K. Jennings (1990) cDNA cloning and expression of platelet p24/CD9. Evidence for a new family of multiple membrane-spanning proteins. J. Biol. Chem. 266:10638-10645.

Santoso, S., V. Kiefel, E. Skribelka, and C. Mueller-Eckhardt (1989) Human platelet-specific antibodies as a tool to identify the glycoprotein specificity of mAb by MAIPA assay. Leukocyte Typing IV. Edited by W. Knapp, B. Dorken, W.R. Gilks, E.P. Rieber, R.E Schmidt, H. Stein, and A.E.G. Kr. von dem Borne. Oxford University Press. p. 972.

Shaw, S., G.C. Luce, W.R. Gilks, K. Anderson et al. (1995) Leucocyte differentiation antigen database. Leukocyte Typing V. Edited by S.F. Schlossman, L. Boumsell, W. Gilks, J.M. Harlan, T. Kishimoto, C. Morimoto, J. Ritz, S. Shaw, R. Silverstein, T. Springer, T.F. Tedder, and R.F. Todd. Oxford University Press. p. 58.

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