



Mouse Anti-Human CD9

Cat. No.	Form	Quantity
9310-01	Purified (UNLB) Antibody	0.1 mg
9310-02	Fluorescein (FITC) Conjugate	100 tests
9310-09	R-phycoerythrin (R-PE) Conjugate	100 tests
9310-14	Low Endotoxin, Azide-Free (LE/AF)	0.1 mg

DESCRIPTION

Clone	MM2/57
Ig Isotype	Mouse IgG _{2b}
Specificity	Human CD9

CD9 is a 24 kDa member of the transmembrane 4 superfamily (TM4-SF) of cell surface receptors. It is expressed strongly on platelets, lymphoid progenitor cells, activated lymphocytes and endothelia, and, weakly, on eosinophils, granulocytes, monocytes, and macrophages. CD9 functions as an adhesion molecule where it mediates platelet aggregation and activation.¹⁻³

RESEARCH APPLICATIONS

- Flow cytometry
- Immunohistochemistry (frozen sections)
- Immunoprecipitation
- Western blotting
- Platelet inhibition and aggregation studies

CHARACTERIZATION

To insure lot-to-lot consistency, each batch of product is tested by flow cytometry to conform to the characteristics of a standard reference reagent.

WORKING DILUTIONS

Flow Cytometry:	Purified (UNLB) antibody	≤ 1 µg/10 ⁵ cells
	Fluorescein conjugate	10 µL/10 ⁶ cells
	R-phycoerythrin conjugate	10 µL/10 ⁶ cells

Other Applications: Since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

HANDLING AND STORAGE

- The purified antibody (UNLB) is supplied as 0.1 mg purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (R-PE) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 0.2 mL of PBS. **Aliquot and store at or below -20°C.**
- Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20°C immediately upon receipt. Each reagent is stable for the period shown on the bottle label if stored as directed.

WARNING

Reagents contain sodium azide which is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

REFERENCES

1. Schlossman, S., L. Bloumsell, W. Gilks, J.M. Harlan, C. Kishimoto, J. Ritz, S. Shaw, R. Silverstein, T. Springer, T.F. Tedder, and R.F. Todd, eds. 1995. *Leukocyte Typing V: White Cell Differentiation Antigens*, Oxford University Press, Oxford.
2. Barclay, A.N., M.H. Brown, S.K.A. Law, A.J. McKnight, M.G. Tomlinson, and P.A. van der Merwe, eds. 1997. *The Leukocyte Antigens Facts Book*, 2nd Edition, CD9 Section, Academic Press, New York, p. 152
3. Wright, M.D., and M.G. Tomlinson. 1994. *Immunol. Today* 15:588.