

PERFORMANCE DATA SHEET

2135

Monoclonal anti-human CD1c*

mAb name/Clone: M241

Isotype: Mouse IgG1 κ

Immunogen: Human T cell line Molt 4

CATALOG#: 146-020

QUANTITY: 100 μ g

CONCENTRATION: 1.0 mg/ml

INFORMATION: The human CD1 genetic locus consists of five closely related genes. Three of the gene products (CD1a, CD1b and CD1c) have been officially clustered using antibodies and are expressed on cortical thymocytes, a subset of B cells, and on most professional antigen presenting cells. CD1 molecules have a specialized lipid antigen-presenting function and it is unlikely that they present conventional peptide antigens. CD1 may also be involved in costimulation. Antibody M241 recognizes the CD1c molecule of about 48 kd.

References: R.W. Knowles and W. F. Bodmer (1982) Eur J Immunol **12**: 676-681. Leukocyte Typing III (A.J. McMichael, et al, eds.) Oxford University Press, Oxford, (1987) p. 882. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 337-341. E.M. Beckman, et al, (1994) Nature **372**: 691-694. S. Blumberg, et al, (1995) Immunol Rev **147**: 5-29. S.M. Behar, et al, (1995) J Exp Med **182**: 2007-2018.

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

PERFORMANCE: Five x 10⁵ cultured human Molt-4 cells per tube were incubated 45 minutes on ice with 80 μ l anti-CD1c antibody at 10 μ g/ml. Cells were washed twice and incubated with 2° reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.45 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010).

**Research use only. Not for use in Diagnostic procedures.*

**Binding of anti-CD1c mAb
+GAM/FITC human Molt-4 cells**

