

PERFORMANCE DATA SHEET

1817

Monoclonal anti-human CD69(AIM)/FITC*

mAb name/Clone: HP-4B3

Isotype: Mouse IgG2a

Immunogen: IL-2 activated human NK cells

CATALOG#: 221-040

QUANTITY: 120 tests

VOLUME IN VIAL: 0.2 ml

WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5x 10⁵-cell test)

INFORMATION: Human CD69 is expressed by platelets and mature thymocytes and appears rapidly after activation on T cells, B cells and NK cells. This pattern of cellular CD69 expression has suggested a lymphocyte activation role. Functional studies with antibodies to CD69 also support an activation role for CD69. Antibody HP-4B3 recognizes the dimeric CD69 molecule of 60 kd.

References: S.F. Ziegler, et al, Stem Cells (1994) **12**: 456-465. R. Testi, et al, Immunol Today (1994) **15**: 479-483. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1123-1132. D. Vanhecke, et al, J Immunol (1995) **155**: 1862-1872.

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

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, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to 95% Immunoglobulin by SDS-PAGE, and reacted with FITC. Unconjugated FITC was removed from conjugate using a desalting column. Antibody conjugate is at approximately **0.5 mg/ml** with a Fluorescein/IgG molar ratio of 8.0.

PERFORMANCE: Five x 10⁵ cultured human **HEL92.1** cells were washed and pre incubated 5 minutes with 20 µl of 250µg/ml human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80 µl of anti-CD69/FITC at a **1:50** dilution factor (10µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.67** log₁₀ fluorescent units when compared to a Mouse IgG2a/FITC negative control (Catalog # 281-040) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 µl of 0.5 mg/ml anti-CD69 antibody (Catalog #221-020).

**This Product is intended for Laboratory Research use only.*

Binding of anti-CD69/FITC to human cell lines

