PERFORMANCE DATA SHEET
1817

Monoclonal anti-human CD69(AIM)/R-PE*

mAb name/Clone: **HP-4B3**
Isotype: Mouse IgG2a
Immunogen: IL-2 activated human NK cells

CATALOG#: 221-050
QUANTITY: 120 tests **VOLUME IN VIAL: 0.2 ml**
WORKING DILUTION: 1:50 (or use 1.6µl of concentrated stock per 5 x10^5-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^oC.*** **Do not freeze! Protect from light.**

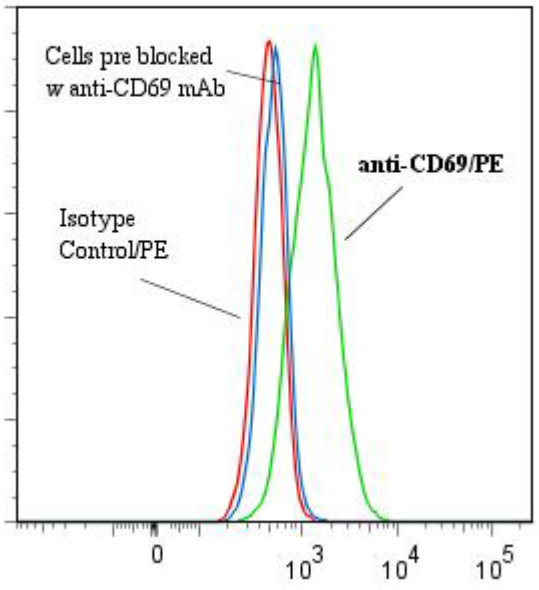
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant, and conjugated to R-Phycoerythrin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at **1.0 mg/ml** with an A_{565}/A_{280} ratio of 3.14.

PERFORMANCE: Five x 10^5 cultured **HEL92.1** human tumor cells were washed and pre incubated 10 minutes with 20µl 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/R-PE at a **1:50** dilution (20 µg/ml). Cells were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.70** $\log_{10}$ fluorescent units when compared to a Mouse IgG2a/R-PE negative control (Catalog #281-050) at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20µl of anti-CD69 antibody at 0.5 mg/ml (Catalog #221-020).

Binding of anti-CD69/R-PE to human HEL92.1 cells



****This Product is intended for Laboratory Research use only.***
R-Phycoerythrin (R-PE) is covered under patents: U.S. 4,520,110; European 76,695 and Canadian 1,179,942.

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