PERFORMANCE DATA SHEET

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Monoclonal anti-human CD69(AIM)/Biotin*

mAb name/Clone: HP-4B3 *Isotype:* Mouse IgG2a

Immunogen: IL-2 activated human NK cells

CATALOG#: 221-030 QUANTITY: 100 μg

CONCENTRATION: 1.0 mg/ml

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*. 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:_____

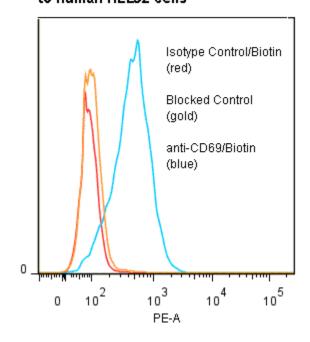
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10^5 cultured **HEL92.1** cells were washed and incubated 45 minutes on ice with 80 μl of anti-CD69/Biotin at **10** μg/ml. Cells were washed twice and incubated with 2^0 reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.77** \log_{10} fluorescent units when compared to a Mouse IgG2a/Biotin negative control (Catalog #281-030). Binding was blocked when cells were pre incubated 10 minutes with 20 μl of 0.5 mg/ml anti-CD69 antibody (Catalog #221-020).

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

Binding of anti-CD69/Biotin +SA/PE to human HEL92 cells



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