

# PERFORMANCE DATA SHEET

3328

## 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°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, 5% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (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<sup>5</sup> 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<sup>o</sup> 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<sub>10</sub> 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

