

**PERFORMANCE DATA SHEET**

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**Monoclonal anti-human CD122 (IL-2R $\beta$ )/Biotin\*****mAb name/Clone:** 9A2 (DU-2)**Isotype:** Mouse IgG2ak**Immunogen:** YT-1 acute human leukemia cells**CATALOG#:** 343-030**QUANTITY:** 100  $\mu$ g**CONCENTRATION:** 1.0 mg/ml

**INFORMATION:** Human CD122 (IL-2 R $\beta$ ) associates with CD25 (IL-2R $\alpha$ ) to form a high affinity receptor for IL-2 and is expressed on activated T cells, B cells and monocytes. The cytoplasmic domain of CD122 is involved with signal transduction. Antibody 9A2 is specific for the 75 kd b subunit CD122 of the high affinity interleukin-2 receptor. Antibody 9A2 (DU-2) inhibits binding of IL-2 to IL-2R $\beta$  (CD122).

**References:** M.R. Fung, et al, (1991) J Immunol **147**: 1253-1260. M.A. Goldsmith, et al, (1994) J Biol Chem **269**: 14698-14704. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 1858.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/thawing 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% Na<sub>3</sub>N (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> ficoll prepared human peripheral blood mononuclear cells were stimulated by incubating 5 days with 5  $\mu$ g/ml PHA-P(Sigma). Stimulated cells were harvested and incubated 45 minutes on ice with 80  $\mu$ l of anti-CD122/Biotin at 20  $\mu$ g/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 0.35 log<sub>10</sub> fluorescent units when compared to a tube where cells were pre blocked 10 minutes with 20  $\mu$ l of 0.5 mg/ml anti-CD122(IL-2R $\beta$ ) antibody (Catalog #343-020).

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

**Binding of anti-CD122/Biotin +SA/PE to stimulated human PBL**

