## PERFORMANCE DATA SHEET 3116 Monoclonal anti-human IgA/R-PE\*



*mAb name/Clone:* Hisa43 *Isotype:* Mouse IgG1κ *Immunogen:* Human salivary proteins

## CATALOG#: 137-050VOLUME IN VIAL: 0.2 mlQUANTITY: 120 testsVOLUME IN VIAL: 0.2 mlWORKING DILUTION: 1:50 (or use1.6 μl concentrated stock per 5 x 10<sup>5</sup>-cell test)

**INFORMATION:** Human immunoglobulins are glycoproteins composed of two disulfide-bonded heavy (H) chain subunits, each of which is linked by interchain disulfide bonds to a light (L) chain forming a tetramolecular complex. There are five classes of immunoglobulins, designated IgG, IgA, IgM, IgD and IgE, which are defined by differences in the constant region of H chains. L chains are divided into kappa or lambda classifications based on structural antigenic differences. All classes of immunoglobulins have been found on the cell surface of B lymphocytes where they function as antigen receptors to elicit antigen-dependent proliferation and secretion of antigen specific soluble circulating antibodies. Antibody Hisa43 recognizes cell surface expressed IgA. **References: 1.** Basic and Clinical Immunology, Seventh edition (D. P. Sites & A. I. Terr, eds.) Appleton & Lange., Norwalk, CT (1991). **2.** J. Biewenga, et al, (1986) Mol Immunol 23: 761-767.

## STORAGE CONDITIONS: Store at 2 - 5°C. 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:\_\_\_\_\_

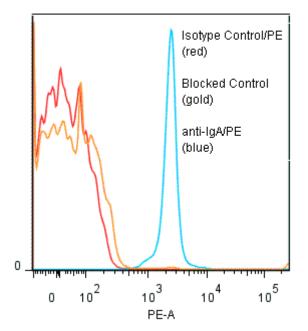
**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 500 mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2% BSA, 0.04% NaN<sub>3</sub> (as a preservative).

**PRODUCTION:** Protein A purified antibody from tissue culture supernatant was 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 3.03.

**PERFORMANCE:** anti-IgA/PE was tested for FACS binding activity with human IgA-coated CML latex beads. Five x  $10^5$  human IgA-coated CML Latex beads per tube were washed and incubated 45 minutes on ice with 80 µl of anti-IgA/PE at a **1:50 dilution (20 µg/ml)**. They were washed three times, fixed and analyzed by FACS. Beads stained positive with a mean shift of **1.78** log<sub>10</sub> fluorescent units when compared to a Mouse IgG1/Biotin Isotype control (Catalog # 278-030). Binding was blocked when beads were pre incubated 10 minutes with a 10-fold excess of anti-IgA antibody (Catalog #137-020).

\* Research Use Only. Not for use in Diagnostic procedures.

## Binding of anti-IgA/PE to hulgA-coated CML



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