## PERFORMANCE DATA SHEET

3321

## Monoclonal anti-human IgA\*



*mAb name/Clone:* Hisa43 *Isotype:* Mouse IgG1κ

Immunogen: Human salivary proteins

**CATALOG#: 137-020 QUANTITY: 100 μg** 

**CONCENTRATION: 1.0 mg/ml** 

**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<sup>o</sup>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, 0.5 mg/ml Gentamicin Sulfate (as a preservative).

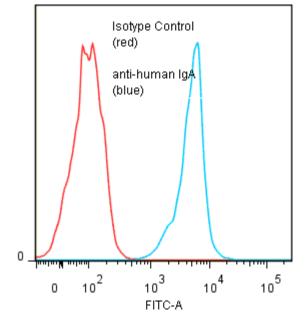
**PRODUCTION:** Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95% Immunoglobulin by SDS-PAGE with less than 1% Bovine Immunoglobulin.

Binding of anti-human loss man +GAM/F

**PERFORMANCE:** Anti-IgA mAb was tested for FACS binding to 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  $\mu$ l of anti-IgA mAb at **5**  $\mu$ g/ml. They were washed twice and incubated with  $2^0$  reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Beads stained positive with a mean shift of **1.86**  $\log_{10}$  fluorescent units when compared to Mouse IgG1 Isotype control (Catalog #278-010).

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

## Binding of anti-human IgA mAb +GAM/FITC to IgA-coated CML beads



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