PERFORMANCE DATA SHEET

1750

Monoclonal anti-human IgA*



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

Immunogen: Human salivary proteins

CATALOG#: 137-820 (Preservative-free)

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 $2 - 5^{\circ}C$. Freeze/Thawing is not recommended. Open under aseptic conditions.

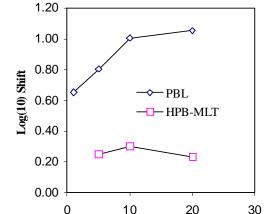
PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl.

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. Product was $0.2~\mu m$ filtered and vialed under aseptic conditions.

PERFORMANCE: Five x 10^5 ficoll prepared **human peripheral blood mononuclear cells** were pre incubated 5 minutes with 20 µl of 250 µg/ml human Ig after which they were incubated 45 minutes on ice with 80 µl of anti-human IgA antibody at **10** µg/ml. Cells 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. A net **3%** sub population of the cells stained positive with a mean shift of **1.23** \log_{10} fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010) at a similar concentration.

*This Product is intended for Laboratory Research use only.



ug/ml

Binding of anti-human IgA to human cell types

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