

Mouse Anti-Chicken IgM Monoclonal Antibody, R-PE Conjugated

Mouse, Monoclonal (Immunoglobulin M)

Cat. No. DMAB4643

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Mab to IgM

Mouse Monoclonal Antibody to Chicken Immunoglobulin M (IgM), μ chain specific

Clone: N-2

Ig Isotype: Mouse IgG_{2b}K

Format: R-phycoerythrin (R-PE) Conjugate

Quality: 0.1 mg

Specificity: Chicken IgM (μ heavy chain specific)

Applications: Flow cytometry; Immunoprecipitation

Characterization: To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested by flow cytometry to conform to characteristics of a standard reference. Representative data are included in this product insert.

Working Dilutions:

Flow Cytometry: $\leq 0.2 \mu\text{g}/10^6$ cells;

Other Applications: Since applications vary, each investigator should determine the optimum working dilutions of the product that is appropriate for their specific needs.

Immunofluorescent Staining:

Amount Used: $1 \mu\text{g}/10^6$ cells

Chicken peripheral blood mononuclear cells were doublestained with mouse anti-chicken IgM-FITC and mouse antichick CD3-R-PE. Small lymphocytes were then gated and analyzed on a FACScan™ flow cytometer (BDIS, San Jose, CA).

Handling And Storage: The R-phycoerythrin (R-PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!** Protect conjugated forms from light. Each reagent is stable for the period shown on the bottle label if stored as directed.

Warning: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

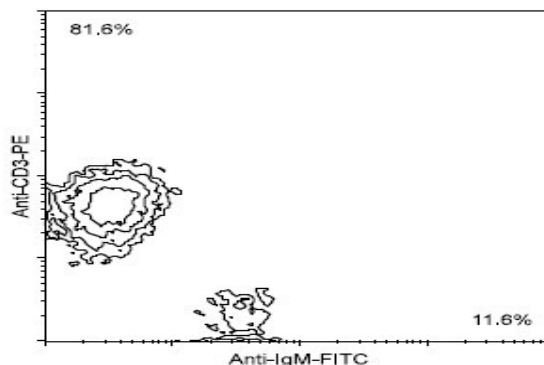
BACKGROUND

Introduction: Immunoglobulin M, or IgM for short, is a basic antibody that is produced by B cells. It is the primary antibody against A and B antigens on red blood cells. IgM is by far the physically largest antibody in the human circulatory system. It is the first antibody to appear in response to initial exposure to antigen.

Keywords: IgM; Constant region of heavy chain of IgM; Hepatitis B virus receptor binding protein; Ig mu chain C region; IGHM; Immuno- globulin mu chain; Immunoglobulin heavy chain; VH; Immuno- globulin M; IgM μ ; Immunoglobulin M μ ; IgM heavy chain, Immunoglobulin M heavy chain; IgM μ heavy chain; Immuno- globulin M μ heavy chain

REFERENCES

1. Chen, C.H., J.E. Lehmeyer, and M.D. Cooper. 1982. J. Immunol. 129:2580.
2. Southern Biotechnology Associates, Inc. Unpublished observations.



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