

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

Mouse, Monoclonal (Immunoglobulin M) Cat. No. DMAB4903 Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: MAb to IgM

Mouse Monoclonal Antibody to Rat Immunoglobulin M (IgM), μ heavy chain

Clone: N3A2

Ig Isotype: Mouse IgG1k

Format: *R-phycoerythrin (R-PE) Conjugate *Quality:* 0.1 mg

Specificity: Reacts with the µ heavy chain (Fc) of rat IgM **Applications:** Identification and enumeration of IgM⁺ cells by

flow cytometry Identification and enumeration of IgM^+ cells by immunofluo-

rescence microscopy

Second step reagent for rat IgM monoclonal antibodies ELISA

Surface IgM detection

B cell stimulation

Characterization: To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested as a second step reagent by flow cytometry and/or ELISA to conform with characteristics of a standard reference reagent. Representative data are included in this product insert.

Working Dilutions: Flow Cytometry: $\leq 0.02 \ \mu g/10^6$ cells; Other Applications: Since applications vary, each investigator should determine the optimum working dilutions of the product that is appropriate for their specific needs.

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. 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.

REFERENCES

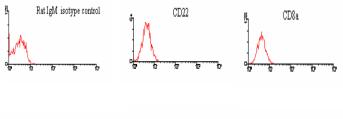
1. U.S. Patent 4,520,110; European Patent No. 76,695; and Canadian Patent No. 1,179,942.

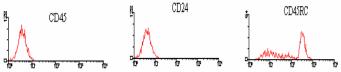
2. FACScan[™] is a registered trademark of Becton Dickinson Immunocytometry Systems, Inc. (BDIS, San Jose, CA)

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: Constant region of heavy chain of IgM; Hepatitis B virus receptor binding protein; Ig mu chain C region; IGHM; Immunoglobulin mu chain; Imunoglobulin heavy chain; VH; Immunoglobulin M; IgM; Immunoglobulin M μ ; IgM μ ; Immunoglobulin M μ heavy chain; IgM μ heavy chain;





IMMUNOFLUORESCENT STAINING Amount Used: 0.02 µg/106 cells B6 Splenocytes were incubated with rat IgM isotype, rat antimouse CD22 (2D6, rat IgG1), rat anti- mouse CD8 (53-6.7, rat IgG2a), rat anti-mouse CD45 (LCA) (I3/2.3, rat IgG2b), rat anti-mouse CD3 (C363.29B, rat IgG2c), and rat anti-mouse CD45RC (GL24, rat IgM). After washing, the cells were stained with R-PE-labeled Mouse Anti-Rat IgM. Small lymphocytes were gated and analyzed on a FAC-Scan[™] low cytometer (BDIS, San Jose, CA).

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