

## Mouse Anti-Rat IgM Monoclonal Antibody, FITC Conjugated

### Mouse, Monoclonal (Immunoglobulin M)

Cat. No. DMAB4900

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 IgG1κ

**Format:** Fluorescein (FITC) Conjugate

**Quality:** 0.5 mg

**Specificity:** Reacts with the μ heavy chain (Fc) of rat IgM

**Applications:** Identification and enumeration of IgM<sup>+</sup> cells by  
flow cytometry

Identification and enumeration of IgM<sup>+</sup> 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. Representa-  
tive data are included in this product insert.

**Working Dilutions:** Flow Cytometry: ≤ 0.3μg/10<sup>6</sup> cells;

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

**Handling And Storage:** The fluorescein (FITC) and Cyanine  
5 (CY<sup>TM</sup>5) conjugates are supplied as 0.5 mg or 0.1mg in 1.0  
mL of PBS/NaN<sub>3</sub>. 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 condi-  
tions. Dilute azide-containing compounds in running water  
before discarding to avoid accumulation of potentially explo-  
sive 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:** Constant region of heavy chain of IgM; Hepatitis B  
virus receptor binding protein; Ig mu chain C region; IGHM;  
Immunoglobulin mu chain; Immunoglobulin heavy chain; VH;  
Immunoglobulin M; IgM; Immunoglobulin M μ; IgM μ; Immu-  
noglobulin M μ heavy chain; IgM μ heavy chain;

#### REFERENCES

1. U.S. Patent 4,520,110; European Patent No. 76,695; and  
Canadian Patent No. 1,179,942.
2. FACScan<sup>TM</sup> is a registered trademark of Becton Dickinson  
Immunocytometry Systems, Inc. (BDIS, San Jose, CA)

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