

Rat Anti-Mouse IgM (μ chain specific)

Cat. No.	Form	Quantity
1140-01	Purified (UNLB) Antibody	0.5 mg
1140-02	Fluorescein (FITC) Conjugate	0.5 mg
1140-04	Alkaline Phosphatase (AP) Conjugate	1.0 mL
1140-05	Horseradish peroxidase (HRP) Conjugate	1.0 mL
1140-08	Biotin (BIOT) Conjugate	0.5 mg
1140-09	R-phycoerythrin (R-PE) Conjugate	0.1 mg
1140-09L	R-phycoerythrin (R-PE) Conjugate	0.2 mg
1140-11	Allophycocyanin (APC) Conjugate	0.1 mg
1140-17	R-phycoerythrin-Cyanine 7 (R-PE-CY TM 7) Conjugate	0.1 mg

DESCRIPTION

Clone	1B4B1
Ig Isotype	Rat IgG ₁ κ
Specificity	Reacts with the μ heavy chain of mouse IgM

RESEARCH APPLICATIONS

- Identification and enumeration of IgM⁺ cells by flow cytometry
- Identification and enumeration of IgM⁺ cells by immunofluorescence microscopy
- Second step reagent for mouse IgM monoclonal antibodies
- Enzyme-Linked-Immunosorbent-Assay (ELISA)

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of monoclonal antibody is tested to conform to characteristics of a standard reference reagent using immunofluorescence staining. Representative data are included in this data sheet.

WORKING DILUTIONS

Flow Cytometry:	Fluorescein conjugate	$\leq 1 \mu\text{g}/10^6$ cells
	Biotin conjugate	$\leq 1 \mu\text{g}/10^6$ cells
	R-phycoerythrin conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
	Allophycocyanin conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
	R-phycoerythrin-Cyanine 7 conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells

ELISA:	Alkaline phosphatase conjugate	1:1,000-1:2,000
	Horseradish peroxidase conjugate	1:2,000-1:4,000

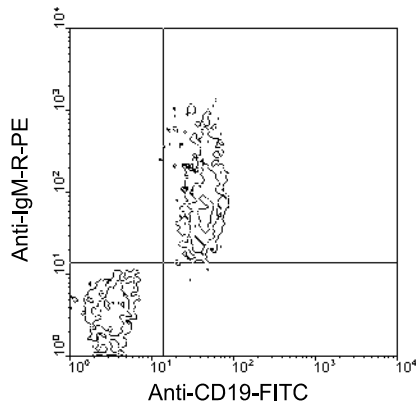
Other Applications: Since applications vary, each investigator should determine the optimum working dilutions of the product that is appropriate for their specific needs.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

IMMUNOFLUORESCENT STAINING

Product: Rat Anti-Mouse IgM-R-PE
Cat No: 1140-09
Amount Used: 0.3 $\mu\text{g}/10^6$ cells

Cells from BALB/c spleen were double-stained with rat anti-mouse IgM-R-PE and rat anti-mouse CD19-FITC (Cat. No. 1575-02, Clone 6D5), following which small lymphocytes were gated and analyzed using a FACScan™ flow cytometer (BDIS, San Jose, CA).



HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL of stock solution in 50mM Tris/1mM MgCl₂/50% Glycerol, pH 8.0, containing 0.1% NaN₃ as preservative. Store at 2-8°C or long-term at -20°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL of stock solution in 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C
- The R-phycoerythrin (R-PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) 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!**
- The R-phycoerythrin-Cyanine 7 (R-PE-CY™7) 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. Reagents are stable for the period shown on the 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.

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

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