



## Goat Anti-Mouse IgM ( $\mu$ chain specific)

Cat. No.	Form	Quantity
1020-01	Purified (UNLB) Antibody	1.0 mg
1020-02	Fluorescein (FITC) Conjugate	1.0 mg
1020-03	Rhodamine (TRITC) Conjugate	1.0 mg
1020-04	Alkaline Phosphatase (AP) Conjugate	1.0 mL
1020-05	Horseradish Peroxidase (HRP) Conjugate	1.0 mL
1020-06	$\beta$ -galactosidase (BGAL) Conjugate	1.0 mL
1020-07	Texas Red <sup>®</sup> (TXRD) Conjugate	1.0 mg
1020-08	Biotin (BIOT) Conjugate	1.0 mg
1020-09	R-phycoerythrin (R-PE) Conjugate	0.5 mg
1020-09S	R-phycoerythrin (R-PE) Conjugate	0.25 mg
1020-11L	Allophycocyanin (APC) Conjugate	0.5 mg
1020-11S	Allophycocyanin (APC) Conjugate	0.25 mg
1020-15	*Cyanine 5 (CY <sup>™</sup> 5) Conjugate	1.0 mg
1020-17	*R-phycoerythrin-Cyanine 7 (R-PE-CY <sup>™</sup> 7) Conjugate	0.25 mg

### DESCRIPTION

**Source:** Pooled antisera from goats hyperimmunized with mouse IgM paraproteins.  
**Cross Absorption:** Mouse IgG<sub>1</sub>, IgG<sub>2a</sub>, IgG<sub>2b</sub>, IgG<sub>3</sub> and IgA, pooled human sera and purified human paraproteins.  
**Purification:** Affinity chromatography on mouse IgM covalently linked to agarose.  
**Specificity:** Reacts with the heavy chain of mouse IgM as demonstrated by ELISA, FLISA, and/or flow cytometry. Minimal cross reactivity with human immunoglobulins.

### RESEARCH APPLICATIONS

- Direct immunofluorescent staining of IgM<sup>+</sup> mouse B lymphocytes
- Indirect immunostaining in conjunction with mouse IgM monoclonal antibodies
- Enzyme-Linked-Immunosorbent-Assay (ELISA)
- Fluorescent-Linked-Immunosorbent-Assay (FLISA)
- Immunoblotting

### CHARACTERIZATION

To insure lot-to-lot consistency, each batch of product is tested by ELISA, FLISA, and/or flow cytometry for conformance to characteristics of a standard reference reagent.

### WORKING DILUTIONS

**Immunofluorescence:** FITC and BIOT conjugates  $\leq 1 \mu\text{g}/10^6$  cells  
R-PE, APC, CY<sup>™</sup>5, and R-PE/CY<sup>™</sup>7 conjugates  $\leq 0.1 \mu\text{g}/10^6$  cells

**FLISA:** TRITC and TXRD conjugates 1:100-1:400

**ELISA:** AP conjugate 1:2,000-1:4,000  
HRP conjugate 1:4,000-1:8,000  
BGAL conjugate 1:500  
BIOT conjugate 1:5,000-1:20,000

**Other Applications:** Since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.

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

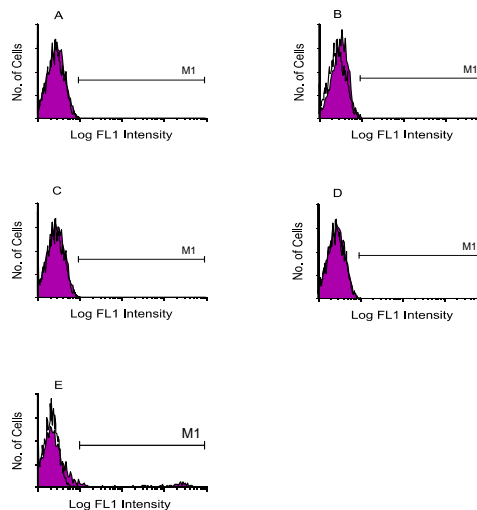
## IMMUNOFLUORESCENT STAINING

**Product:** Goat Anti-Mouse IgM-FITC

**Cat. No.** 1020-02

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

Human peripheral blood mononuclear cells were labeled with either mouse anti-human CD3 (IgG<sub>1</sub>) (A), anti-human CD5 (IgG<sub>2a</sub>) (B), anti-human CD22 (IgG<sub>2b</sub>) (C), anti-human IgD (IgG<sub>3</sub>) (D) or anti-human CD57 (IgM) (E). After washing the cells were then stained with goat anti-mouse IgM-FITC, following which lymphocytes were gated and analyzed by flow cytometry.



## HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 1.0 mg 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), rhodamine (TRITC), and Texas Red<sup>®</sup> (TXRD), and Cyanine 5 (CY<sup>™</sup>5) conjugates are supplied as 1.0 mg in 1.0 mL PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL of stock solution in 50mM Tris/1mM MgCl<sub>2</sub>/50% Glycerol, pH 8.0, containing 0.1% NaN<sub>3</sub> 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 β-galactosidase (BGAL) conjugate is supplied as 1.0 mL of stock solution in 50% glycerol/50% PBS/NaN<sub>3</sub> as preservative. Store at 2-8°C or long-term at -20°C.
- The biotin (BIOT) conjugate is supplied as 1.0 mg in 2.0 mL PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (R-PE) and allophycocyanin (APC) conjugates are supplied as 0.5 mg in 1.0 mL or 0.25 mg in 0.5 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The R-phycoerythrin-Cyanine 7 (R-PE-CY<sup>™</sup>7) conjugate is supplied as 0.25 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## WARNING

Reagents contain sodium azide which 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.

Texas Red<sup>®</sup> is a registered trademark of Molecular Probes, Inc.

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