

## Rat Anti-Mouse CD11b/Mac-1

Cat. No.	Form	Quantity
1560-01	Purified (UNLB) Antibody	0.5 mg
1560-02S	Fluorescein (FITC) Conjugate	0.1 mg
1560-02	Fluorescein (FITC) Conjugate	0.5 mg
1560-08	Biotin (BIOT) Conjugate	0.5 mg
1560-09	R-phycoerythrin (R-PE) Conjugate	0.1 mg
1560-09L	R-phycoerythrin (R-PE) Conjugate	0.2 mg
1560-11	Allophycocyanin (APC) Conjugate	0.1 mg
1560-13	*Spectral Red™ (SPRD) Conjugate	0.1 mg
1560-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1560-15	**Cyanine 5 (CY™5) Conjugate	0.1 mg
1560-17	**R-phycoerythrin-Cyanine 7 (R-PE-CY™7) Conjugate	0.1 mg
1560-19	** Allophycocyanin –Cyanine 7 (APC-CY™7) Conjugate	0.1 mg
1560-30	***Alexa Fluor 488 (AF488) Conjugate	0.1mg

### DESCRIPTION

<b>Clone</b>	3A33
<b>Ig Isotype</b>	Rat (Lewis) IgG2aκ
<b>Immunogen</b>	Peritoneal macrophages from C57 B1/6 x DBA/2 F1 hybrid mice <sup>1</sup>
<b>Specificity</b>	αM subunit (Mr 170 kDa) of the CD11b/CD18 heterodimer

CD11b (integrin αM subunit) combines with CD18 (integrin β2 subunit) to form the integrin Mac-1, also known as complement receptor 3 (CR3), which mediates adhesion to C3bi and ICAM-1 (CD54).<sup>2-6</sup> Mac-1 is expressed at varying levels on granulocytes, macrophages, dendritic cells, NK cells, and B-1 cells in the peritoneal and pleural cavities.<sup>2, 7-10</sup> In addition to its role in binding C3bi on opsonized targets and mediation of the subsequent ingestion process,<sup>4, 11</sup> Mac-1 is important as an adhesion molecule in the transendothelial migration of monocytes and neutrophils.<sup>12</sup>

### RESEARCH APPLICATIONS

- Flow cytometry<sup>1</sup>
- Immunoprecipitation<sup>1</sup>

### CHARACTERIZATION

To insure acceptable performance, each batch of product is tested by flow cytometry to conform to characteristics of a standard reference reagent. Representative flow data are included in this product insert.

### WORKING DILUTIONS

<b>Flow Cytometry:</b>	Purified antibody	≤ 1 μg/10 <sup>6</sup> cells
	Fluorescein conjugate	≤ 1 μg/10 <sup>6</sup> cells
	Biotin conjugate	≤ 1 μg/10 <sup>6</sup> cells
	R-phycoerythrin conjugate	≤ 0.3 μg/10 <sup>6</sup> cells
	Allophycocyanin conjugate	≤ 0.3 μg/10 <sup>6</sup> cells
	Spectral Red™ conjugate	≤ 0.3 μg/10 <sup>6</sup> cells
	Cyanine 5 conjugate	≤ 0.3 μg/10 <sup>6</sup> cells
	R-phycoerythrin-Cyanine 7 conjugate	≤ 0.3 μg/10 <sup>6</sup> cells
	Allophycocyanin-Cyanine 7 conjugate	≤ 0.3 μg/10 <sup>6</sup> cells
	Alexa Fluor 488	≤ 0.3 μg/10 <sup>6</sup> cells

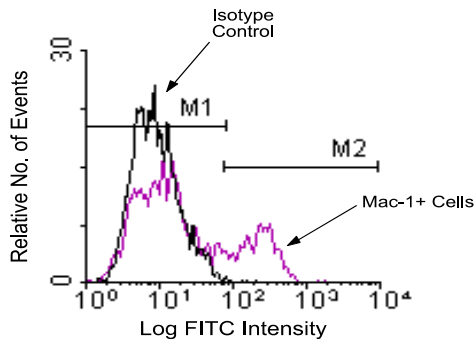
**Other Applications:** Since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.

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

## IMMUNOFLUORESCENT STAINING

**Product:** Rat Anti-Mouse CD11b-UNLB  
**Cat. No.:** 1560-01  
**Amount Used:** 1 µg/10<sup>6</sup> cells

BALB/c splenocytes were incubated with rat anti-mouse CD11b and then stained with goat anti-rat IgG (H+L)-FITC (Cat. No. 3050-02). Large cells were gated and analyzed on 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 or 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. 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/NaN<sub>3</sub> 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/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red™ (SPRD), R-phycoerythrin-Cyanine 7 (R-PE-CY™7) and Allophycocyanin-Cyanine 7 (APC-CY™7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The Cyanine 5 (CY™5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The Alexa Fluor 488 (AF488) conjugate is supplied as 0.1 mg in 0.2 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20°C immediately upon receipt. 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

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