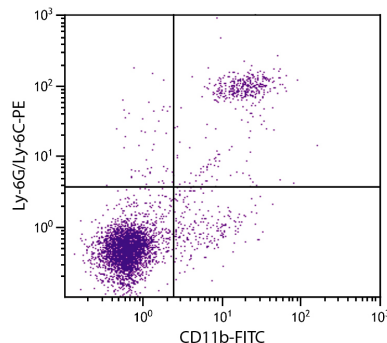




## Rat Anti-Mouse CD11b

Cat. No.	Format	Size
1561-01	Purified (UNLB)	0.5 mg
1561-02S	Fluorescein (FITC)	0.1 mg
1561-02	Fluorescein (FITC)	0.5 mg
1561-08	Biotin (BIOT)	0.5 mg
1561-09	R-phycoerythrin (PE)	0.1 mg
1561-09L	R-phycoerythrin (PE)	0.2 mg
1561-11	Allophycocyanin (APC)	0.1 mg
1561-13	Spectral Red <sup>®</sup> (SPRD)	0.1 mg
1561-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1561-15	Cyanine 5 (CY5)	0.1 mg
1561-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
1561-19	Allophycocyanin-Cyanine 7 (APC/CY7)	0.1 mg
1561-26	Pacific Blue <sup>™</sup> (PACBLU)	0.1 mg
1561-27	Alexa Fluor 700 <sup>®</sup> (AF700)	0.1 mg
1561-30	Alexa Fluor 488 <sup>®</sup> (AF488)	0.1 mg
1561-31	Alexa Fluor 647 <sup>®</sup> (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD11b-FITC (SB Cat. No. 1561-02) and Rat Anti-Mouse Ly-6G/Ly-6C-PE (SB Cat. No. 1900-09).

### Overview

<b>Clone</b>	M1/70
<b>Isotype</b>	Rat (Dark Agouti) IgG <sub>2b</sub> K
<b>Immunogen</b>	C57BL/10 mouse splenic T cells and concanavalin A-activated C57BL/10 splenocytes
<b>Specificity</b>	Mouse/Human/Rhesus/Baboon/Rabbit CD11b; Mr 170 kDa
<b>Alternate Name(s)</b>	Integrin $\alpha_M$ , Mac-1 $\alpha$ , Mac-1, Mo1, CR3, C3biR

### Description

CD11b, the integrin  $\alpha_M$  subunit, combines with CD18, the integrin  $\beta_2$  subunit, to form the integrin Mac-1, also known as complement receptor 3 (CR3), which mediates adhesion to C3bi and ICAM-1/CD54. Mac-1 is expressed at varying levels on granulocytes, macrophages, dendritic cells, NK cells, and B-1 cells in the peritoneal and pleural cavities. Mac-1 expression is rapidly up-regulated on neutrophils after activation and in the same time period that CD62L is shed from the cell surface. In addition to its role in binding C3bi on opsonized targets and mediation of the subsequent ingestion process, Mac-1 is important as an adhesion molecule in the transendothelial migration of monocytes and neutrophils. Cross-reaction of M1/70 to human CD11b has been observed on monocytes, polymorphonuclear leukocytes, and NK cells.

### Applications

FC – Quality tested <sup>2,5,7-10</sup>  
 IHC-FS – Reported in literature <sup>3,4</sup>  
 IHC-PS – Reported in literature <sup>12,13</sup>  
 ICC – Reported in literature <sup>14</sup>  
 IP – Reported in literature <sup>1,2,7</sup>  
 Block – Reported in literature <sup>6</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 $\mu\text{g}/10^6$ cells
	FITC, BIOT, and AF488 conjugates	≤ 1 $\mu\text{g}/10^6$ cells
	PE, APC, SPRD, CY5, PE/CY7, APC/CY7, PACBLU, AF647 and AF700 conjugates	≤ 0.3 $\mu\text{g}/10^6$ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 $\mu\text{L}$	

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

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

## Handling and Storage

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- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 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 (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<sup>®</sup> (SPRD), R-phycoerythrin-Cyanine 7 (PE/CY7), and allophycocyanin-Cyanine 7 (APC/CY7) 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 of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The Cyanine 5 (CY5) 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<sup>®</sup> 488 (AF488), Alexa Fluor<sup>®</sup> 647 (AF647), Alexa Fluor<sup>®</sup> 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

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Some reagents contain sodium azide. Please refer to product specific SDS.

## References

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Spectral Red<sup>®</sup> is a PE/CY5 tandem conjugate.

Cy<sup>®</sup> is a registered trademark of GE Healthcare.

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