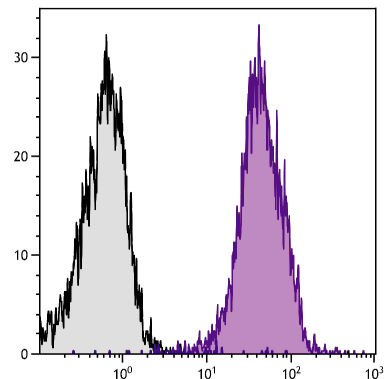




## Rat Anti-Mouse CD102

Cat. No.	Format	Size
1925-01	Purified (UNLB)	0.5 mg
1925-02	Fluorescein (FITC)	0.5 mg
1925-02S	Fluorescein (FITC)	0.1 mg
1925-08	Biotin (BIOT)	0.5 mg
1925-09	R-phycoerythrin (PE)	0.1 mg
1925-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1925-26	Pacific Blue™ (PACBLU)	0.1 mg
1925-27	Alexa Fluor® 700 (AF700)	0.1 mg
1925-30	Alexa Fluor® 488 (AF488)	0.1 mg
1925-31	Alexa Fluor® 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD102-BIOT (SB Cat. No. 1925-08) followed by Streptavidin-PE (SB Cat. No. 7100-09).

### Overview

<b>Clone</b>	3C4 (m1C2/4)
<b>Isotype</b>	Rat (Lewis) IgG <sub>2a</sub> K
<b>Immunogen</b>	COS cells transfected with mouse ICAM-2 cDNA and BW5147 AKR/J mouse thymoma cell line
<b>Specificity</b>	Mouse CD102; Mr 55 kDa
<b>Alternate Name(s)</b>	ICAM-2, intercellular adhesion molecule-2

### Description

The 3C4 monoclonal antibody reacts with the cell surface glycoprotein mouse CD102 (ICAM-2), a ligand for the leucocyte integrin CD11a/CD18 (LFA-1). CD102 is constitutively expressed on T cells, B cells, and at high levels on vascular endothelial cells. It is also expressed on a variety of leukocyte cell lines. The 3C4 antibody blocks the interaction between ICAM-2 and LFA-1.

### Applications

FC – Quality tested <sup>1,5</sup>  
 IHC-FS – Reported in literature <sup>2,3</sup>  
 ICC – Reported in literature <sup>4,5</sup>  
 IP – Reported in literature <sup>1</sup>  
 Block – Reported in literature <sup>1</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 µg/10 <sup>6</sup> cells
	FITC, BIOT, AF488, and PACBLU conjugates	≤ 1 µg/10 <sup>6</sup> cells
	PE, AF647, and AF700 conjugates	≤ 0.2 µg/10 <sup>6</sup> cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	

**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 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 Alexa Fluor<sup>®</sup> 488 (AF488), Alexa Fluor<sup>®</sup> 647 (AF647), Alexa Fluor<sup>®</sup> 700 (AF700), and Pacific Blue<sup>™</sup> (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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1. Xu H, Bickford JK, Luther E, Carpenito C, Takei F, Springer TA. Characterization of murine intercellular adhesion molecule-2. *J Immunol.* 1996;156:4909-14. (Immunogen, FC, IP, Block)
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3. Cao G, Fehrenbach ML, Williams JT, Finklestein JM, Zhu J, DeLisser HM. Angiogenesis in platelet endothelial cell adhesion molecule-1-null mice. *Am J Pathol.* 2009;175:903-15. (IHC-FS)
4. Shin J, Lee JC, Baik K. A single extra copy of Dscr1 improves survival of mice developing spontaneous lung tumors through suppression of tumor angiogenesis. *Cancer Lett.* 2014;342:70-81. (ICC)
5. Fehrenbach ML, Cao G, Williams JT, Finklestein JM, DeLisser HM. Isolation of murine lung endothelial cells. *Am J Physiol Lung Cell Mol Physiol.* 2009;296:L1096-1103. (ICC, FC)

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