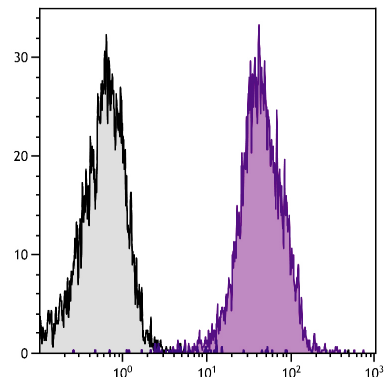




## Rat Anti-Mouse CD102

| 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-Biotin (SB Cat. No. 1925-08) followed by Streptavidin-PE (SB Cat. No. 7100-09).

### Overview

|                          |   |
|--------------------------|---|
| <b>Clone</b>             | 3C4 (mIC2/4)  |
| <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   |                                |
| <b>Other Applications</b> | 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 purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 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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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)
2. Cao G, Savani RC, Fehrenbach M, Lyons C, Zhang L, Coukos G, et al. Involvement of endothelial CD44 during in vivo angiogenesis. Am J Pathol. 2006;169:325-36. (IHC-FS)
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, Baek 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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