

DESCRIPTION

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| Species Reactivity | Mouse |
| Specificity | Detects mouse ICAM-1 in ELISAs and Western blots. In Western blots, this antibody shows weak cross-reactivity with recombinant human (rh) ICAM-1 and rmICAM-2 and no cross-reactivity with rhCD31, rmDCC, rhICAM-2, rhICAM-3, rriCAM-1, rmMAdCAM-1, or rmVCAM-1. |
| Source | Monoclonal Rat IgG _{2B} Clone # 166623 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse ICAM-1 Gln28-Asn485 Accession # P13597 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|---|----------------------------------|---|
| Western Blot | 1 µg/mL | Recombinant Mouse ICAM-1/CD54 Fc Chimera (Catalog # 796-IC) |
| Mouse ICAM-1/CD54 Sandwich Immunoassay | | Reagent |
| ELISA Capture | 2-8 µg/mL | Mouse ICAM-1/CD54 Antibody (Catalog # MAB796) |
| ELISA Detection | 0.1-0.4 µg/mL | Mouse ICAM-1/CD54 Biotinylated Antibody (Catalog # BAF796) |
| Standard | | Recombinant Mouse ICAM-1/CD54 Fc Chimera (Catalog # 796-IC) |

PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Intercellular Adhesion Molecule-1 (ICAM-1, CD54) binds the leukocyte integrins LFA-1 and Mac-1. ICAM-1 expression is weak on leukocytes, epithelial and resting endothelial cells, as well as some other cell types, but expression can be stimulated by IFN-γ, TNF-α, IL-1β, and LPS. Mouse and human ICAM-1 share approximately 54% amino acid sequence identity. Soluble ICAM-1 is found in a biologically active form in serum, probably as a result of proteolytic cleavage from the cell surface, and is elevated in patients with various inflammatory syndromes such as septic shock, leukocyte adhesion deficiency syndrome (LAD), cancer, and transplantation.

References:

1. Pigott, R. and C. Power (1993) in *The Adhesion Molecule Facts Book*. Academic Press, p. 74.
2. Siu, G. *et al.* (1989) *J. Immunol.* **143**:3813.
3. Ballantyne, C.M. *et al.* (1989) *Nuc. Acid. Res.* **17**:5853.