**DESCRIPTION**

**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, rmICAM-1, rmMAdCAM-1, or rmVCAM-1.

**Source**
Monoclonal Rat IgG2B 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.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL Recombinant Mouse ICAM-1/CD54 Fc Chimera (Catalog # 796-IC)</td>
</tr>
</tbody>
</table>

**Mouse ICAM-1/CD54 Sandwich Immunoassay**

<table>
<thead>
<tr>
<th>Reagent</th>
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<tbody>
<tr>
<td>ELISA Capture 2-8 μg/mL Mouse ICAM-1/CD54 Antibody (Catalog # MAB796)</td>
</tr>
<tr>
<td>ELISA Detection 0.1-0.4 μg/mL Mouse ICAM-1/CD54 Biotinylated Antibody (Catalog # BAF796)</td>
</tr>
<tr>
<td>Standard  Recombinant Mouse ICAM-1/CD54 Fc Chimera (Catalog # 796-IC)</td>
</tr>
</tbody>
</table>

**PREPARATION AND STORAGE**

**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.
- 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:**