

**DESCRIPTION**

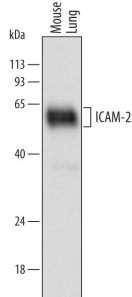
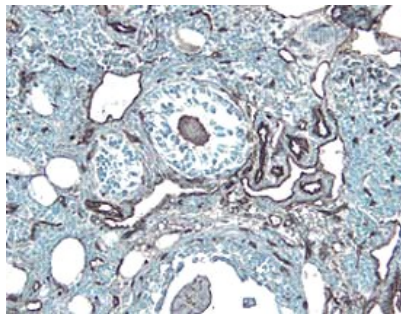
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse ICAM-2 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human ICAM-2 and recombinant rat ICAM-1 and less than 1% cross-reactivity with recombinant mouse (rm) VCAM-1, rmlCAM-5, and rmlCAM-1 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse ICAM-2 Ser20-Gln222 Accession # P35330
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.25 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below
<b>Adhesion Blockade</b>	The adhesion of HSB2 human peripheral blood acute lymphoblastic leukemia cells (5 x 10 <sup>4</sup> cells/well) to immobilized Recombinant Mouse ICAM-2/CD102 Fc Chimera (Catalog # 774-M2, 12.5 µg/mL, 100 µL/well) was maximally inhibited (80-100%) by 25 µg/mL of the antibody.	

**DATA**

<p><b>Western Blot</b></p>  <p><b>Detection of Mouse ICAM-2/CD102 by Western Blot.</b> Western blot shows lysates of mouse lung tissue. PVDF membrane was probed with 0.25 µg/mL of Goat Anti-Mouse ICAM-2/CD102 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF774) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). Specific bands were detected for ICAM-2/CD102 at approximately 50 to 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>ICAM-2/CD102 in Mouse Ovary.</b> ICAM-2/CD102 was detected in perfusion fixed frozen sections of mouse ovary using 15 µg/mL Goat Anti-Mouse ICAM-2/CD102 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF774) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for <a href="#">Chromogenic IHC Staining of Frozen Tissue Sections</a>.</p>
---	---

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Intercellular Adhesion Molecule-2 (ICAM-2, also known as CD102), a member of the immunoglobulin superfamily, binds the leukocyte integrins LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18). ICAM-2 is constitutively expressed at high levels on vascular endothelial cells and lymphohematopoietic cells. ICAM-2 mediated adhesion has been shown to provide a co-stimulatory signal for T cell aggregation, NK cytotoxicity and NK cell migration. The mouse and human ICAM-2 proteins share 60% amino acid identity. Human LFA-1 binds equally well to human or mouse ICAM-2.

**References:**

1. Somersalo, K. *et al.* (1995) J. Biol. Chem. **270**:8629.
2. Hayflick, J. *et al.* (1998) Immunologic Res. **17**:313.
3. Xu, H. (1992) J. Immunol. **149**:2650.