### Basic Information

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>GeneBank Accession Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10831-1-AP</td>
<td>BC015969</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source:</th>
<th>Full Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit</td>
<td>Intercellular adhesion molecule 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size:</th>
<th>Calculated MW:</th>
</tr>
</thead>
<tbody>
<tr>
<td>51 μg/150 μl</td>
<td>90 kDa</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Purification Method:</th>
<th>Observed MW:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antigen affinity purification</td>
<td>85-95 kDa</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Full Name:</th>
<th>Recommended Dilutions:</th>
</tr>
</thead>
<tbody>
<tr>
<td>intercellular adhesion molecule 1</td>
<td>WB 1:500-1:2000</td>
</tr>
<tr>
<td></td>
<td>IP 0.5-4.0 μg for IP and 1:500-1:2000 for WB</td>
</tr>
<tr>
<td></td>
<td>IHC 1:500-1:2000</td>
</tr>
</tbody>
</table>

### Applications

- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA
- **Cited Applications:** IF, IHC, WB

- **Species Specificity:** human
- **Cited Species:** bovine, human

**Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

### Background Information

ICAM-1 (CD54) is an 90-kDa transmembrane glycoprotein of the immunoglobulin superfamily and is critical for the firm attachment and transmigration of leukocytes out of blood vessels and into tissues (PMID: 19307690). ICAM-1 is expressed by several cell types, typically on endothelial cells and cells of the immune system, and its expression can be up-regulated by various stimuli, including TNF-α, INF-γ, IL-1 and thrombin (PMID: 3086451; 9694714; 15979056). It is a ligand for LFA-1 and Mac-1, serves as a receptor for rhinovirus, and is one of several receptors used by Plasmodium falciparum (PMID: 2566624; 2538244; 2475784).

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yue Jin</td>
<td>25305479</td>
<td>Toxicol Lett</td>
<td>WB</td>
</tr>
<tr>
<td>Shengnan Zhao</td>
<td>30497287</td>
<td>J Cardiovasc Pharmacol Ther</td>
<td>WB</td>
</tr>
<tr>
<td>Wenyun Niu</td>
<td>25449603</td>
<td>Cancer Lett</td>
<td>WB, IHC</td>
</tr>
</tbody>
</table>

### Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffers:** PBS with 0.01% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting:** is unnecessary for -20°C storage.

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For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 405-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

For Research Use Only

**ICAM-1**

Polyclonal ANTIBODY

**Catalog Number:** 10831-1-AP

**Recommended Dilutions:**
- WB: 1:500-1:2000
- IP: 0.5-4.0 μg for IP and 1:500-1:2000 for WB
- IHC: 1:500-1:2000
- IF: 1:50-1:500

**Positive Controls:**
- WB: HUVEC cells, Raji cells, L02 cells
- IP: Raji cells
- IHC: human lung cancer tissue, human liver cancer tissue, human tonsil tissue
- IF: human lung cancer tissue

**Applications Tested:** FC, IF, IHC, IP, WB, ELISA

**Cited Applications:** IF, IHC, WB

**Species Specificity:** human

**Cited Species:** bovine, human

**Note:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Application:**
- WB
- IP
- IHC
- IF

**GeneBank Accession Number:** BC015969

**GeneID (NCBI):** 3383

**Full Name:** Intercellular adhesion molecule 1

**Calculated MW:** 90 kDa

**Observed MW:** 85-95 kDa

**Recommended Dilutions:**
- WB: 1:500-1:2000
- IP: 0.5-4.0 μg for IP and 1:500-1:2000 for WB
- IHC: 1:500-1:2000
- IF: 1:50-1:500

**Positive Controls:**
- WB: HUVEC cells, Raji cells, L02 cells
- IP: Raji cells
- IHC: human lung cancer tissue, human liver cancer tissue, human tonsil tissue
- IF: human lung cancer tissue

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
**Selected Validation Data**

**WB result of ICAM1 antibody (10831-1-AP, 1:1000) with si-Control and si-ICAM1 transfected Raji cells.**

HUVEC cells were subjected to SDS PAGE followed by western blot with 10831-1-AP (ICAM-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

**Immunofluorescent analysis of (4% PFA) fixed human lung cancer tissue using 10831-1-AP (ICAM-1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).**

**Immunohistochemical analysis of paraffin-embedded human lung cancer using 10831-1-AP (ICAM-1 Antibody) at dilution of 1:50 (under 25x lens).**

**Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10831-1-AP (ICAM-1 Antibody) at dilution of 1:50 (under 40x lens).**

**IP Result of anti-ICAM-1 (IP:10831-1-AP, 4ug; Detection: 10831-1-AP 1:1000) with Raji cells lysate 1320ug.**

1062K6 Raji cells were stained with 0.2ug ICAM-1 antibody (10831-1-AP, red) and control antibody (blue). Fixed with 40%, MeOH blocked with 3% BSA (30 min), Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.