**DESCRIPTION**

<table>
<thead>
<tr>
<th>Species Reactivity</th>
<th>Human</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>Detects human ASC in Western blots.</td>
</tr>
<tr>
<td>Source</td>
<td>Polyclonal Goat IgG</td>
</tr>
<tr>
<td>Purification</td>
<td>Antigen Affinity-purified</td>
</tr>
</tbody>
</table>
| Immunogen          | E. coli-derived recombinant human ASC  
Leu112-Ser195  
Accession # Q9ULZ3 |
| 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>Sample</th>
<th>Recommended Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
</tr>
<tr>
<td>Simple Western</td>
<td>10 μg/mL</td>
</tr>
</tbody>
</table>

**DATA**

**Western Blot**

Detection of Human ASC by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line and U937 human histiocytic lymphoma cell line. PVDF membrane was probed with 1 μg/mL of Goat Anti-Human ASC Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3805) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for ASC at approximately 24 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

**Simple Western**

Detection of Human ASC by Simple Western™. Simple Western lane view shows lysates of MCF-7 human breast cancer cell line and U937 human histiocytic lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for ASC at approximately 28 kDa (as indicated) using 10 μg/mL of Goat Anti-Human ASC Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3805) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

**PREPARATION AND STORAGE**

**Reconstitution**

Reconstitute at 0.2 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**

Apoptosis-associated speck-like protein containing a CARD (ASC) is also known as Target of Methylation-mediated Silencing (TMS-1) and PYD and CARD-domain containing protein (PYCARD). ASC is a p53 target protein that serves as an adaptor to the pro-apoptotic Bax molecule. The interaction of ASC with Bax promotes apoptosis in response to many apoptotic stimuli.