DESCRIPTION
Species Reactivity Human
Specificity Detects human ASC in Western blots.
Source Polyclonal Goat IgG
Purification Antigen Affinity-purified
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>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>1 µg/mL See Below</td>
</tr>
<tr>
<td>Simple Western</td>
<td>10 µg/mL See Below</td>
</tr>
</tbody>
</table>

Knockout Validated
ASC is specifically detected in MCF-7 human breast cancer parental cell line but is not detectable in ASC knockout MCF-7 cell line.

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.

Knockout Validated
Western Blot Shows Human ASC Specificity by Using Knockout Cell Line. Western blot shows lysates of MCF-7 human breast cancer parental cell line and ASC knockout MCF-7 cell line (KO). 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 23 kDa (as indicated) in the parental MCF-7 cell line, but is not detectable in knockout MCF-7 cell line. GAPDH (Catalog # AF5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.

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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.