

Human ASC Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF3805

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.	

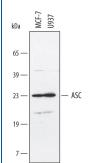
APPLICATIONS

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.

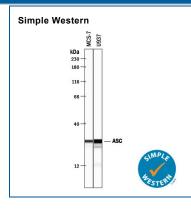
	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Simple Western	10 μg/mL	See Below
Knockout Validated	ASC is specifically detected in MCF-7 human breast cancer parental cell line but is not detectable in ASC knockout MCF-7 cell line.	

DATA

Western Blot

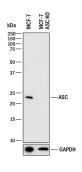


Detection of Human ASC by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line and U937 human histocytic lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human ASC Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3805) followed by HRP-conjugated 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.



Detection of Human ASC by Simple Western M. 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.

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

Shipping

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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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.

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