

Anti-ASC PYCARD Antibody

Catalog Number: A00362

About PYCARD

Apoptosis is regulated by death domain (DD) and/or caspase recruitment domain (CARD) containing molecules and a caspase family of proteases. CARD containing cell death regulators include RAIDD, RICK, BCL10, Apaf-1, ARC, caspase-9, and caspase-2. A novel CARD domain containing protein was recently identified in human and mouse and designated ASC and TMS1. Ectopic expression of ASC/TMS1 induced apoptosis through activation of caspase-9 and inhibited the survival of human breast cancer cells (3, 4). Overexpression of ASC/TMS1 induced DNA fragmentation. ASC/TMS1 is expressed in a variety of human and mouse tissues.

Overview

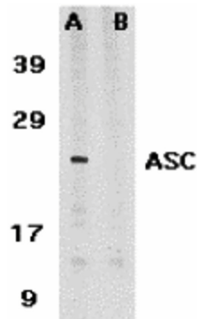
Product Name	Anti-ASC PYCARD Antibody
Reactive Species	Human
Description	Boster Bio Anti-ASC PYCARD Antibody (Catalog # A00362). Tested in ELISA, WB, ICC, IHC-P applications. This antibody reacts with Human.
Application	ELISA, IHC-P, ICC, WB
Clonality	Polyclonal
Formulation	ASC Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	ASC antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9ULZ3

Technical Details

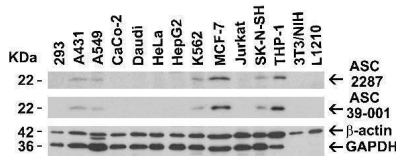
Immunogen	Anti-ASC antibody was raised against a peptide corresponding to 14 amino acids near the carboxy terminus of human ASC. The immunogen is located within the last 50 amino acids of ASC.
Predicted Reactive Species	Mouse, Rat
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ASC Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 1-2 ug/mL; ICC: 5 ug/mL; IHC-P: 2.5 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples;

Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

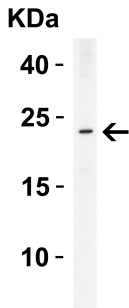
Anti-ASC PYCARD Antibody (A00362) Images



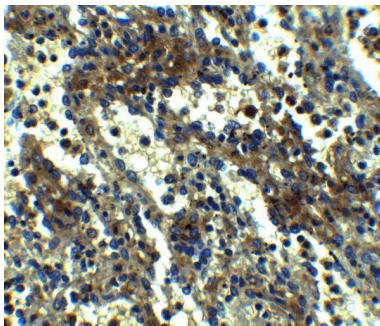
Western Blot Validation in Human HL60 Cells Loading: 15 ug of lysates per lane. Antibodies: ASC A00362, (1 ug/mL) in the absence (A) or presence (B) of blocking peptide, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



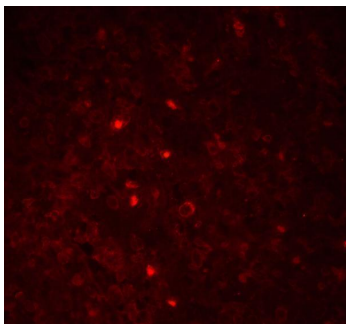
Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines Loading: 15 ug of lysates per lane. Antibodies: ASC A00362, (2 ug/mL), ASC 39-001, (2 ug/mL), beta-actin (1 ug/mL) and GAPDH (0.02 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit or goat anti-mouse (for ASC 39001) IgG HRP conjugate at 1:10000 dilution.



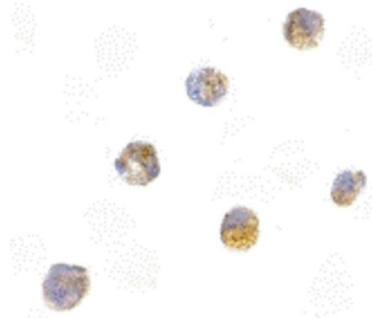
Western Blot Validation in Human THP-1 Cells Loading: 15 ug of lysate per lane. Antibodies: ASC A00362, (2 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



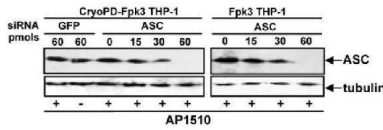
Immunohistochemistry Validation of ASC in Human Spleen Tissue Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-ASC antibody (A00362) at 2.5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



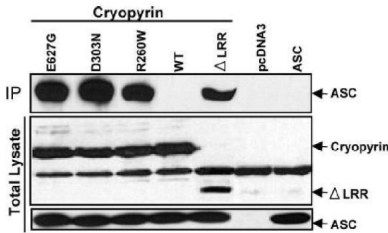
Immunofluorescence Validation of ASC in Human Spleen Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed Human Spleen Tissue labeling ASC with A00362 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).



Immunocytochemistry Validation of ASC in HL60 Cells
Immunocytochemical analysis of HL60 cells using anti-ASC antibody (A00362) at 5 ug/ml. Cells were fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



KD Validation of ASC in THP-1 Cells (Dowds et al., 2004)
Immunofluorescence analysis with anti-ASC antibodies (A00362) was performed for BIM in 293 cells transfected with GFP siRNA or ASC siRNA. ASC expression was disrupted after ASC siRNA knockdown.



Overexpression Validation of ASC in HEK293T Cells (Dowds et al., 2004)
Western blot analysis with anti-ASC antibodies (A00362) was performed for ASC in HEK293T cells transfected with pcDNA3-ASC.

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Anti-ASC PYCARD Antibody

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