



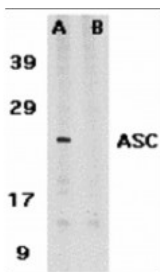
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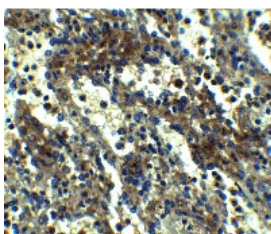
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ASC Antibody

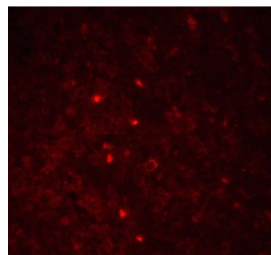
CATALOG NUMBER: 2287



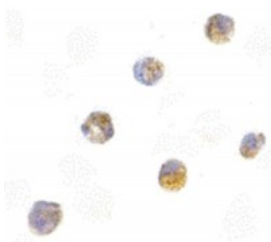
Western blot analysis of ASC in HL60 whole cell lysate in the absence (A) or presence (B) of blocking peptide with ASC antibody at 1 ug /ml.



Immunohistochemistry of ASC in human spleen tissue with ASC antibody at 2.5 ug/ml.



Immunofluorescence of ASC in human spleen tissue with ASC antibody at 20 ug/ml.



Immunocytochemistry of ASC in HL60 cells with ASC antibody at 5 ug/mL.

Specifications

SPECIES REACTIVITY: Human

TESTED APPLICATIONS: ELISA, ICC, IHC-P, WB

APPLICATIONS: ASC antibody can be used for detection of ASC/TMS1 by Western blot at 1 ug/mL. Antibody can also be used for immunocytochemistry starting at 5 ug/mL and immunohistochemistry starting at 2.5 ug/mL..

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

USER NOTE: Optimal dilutions for each application to be determined by the researcher.

POSITIVE CONTROL:

- 1) Cat. No. 1209 - HL60 Cell Lysate
- 2) Cat. No. 17-009 - HL-60 Cell Slide
- 3) Cat. No. 10-901 - Human Spleen Tissue Slide

PREDICTED MOLECULAR WEIGHT: 25 kDa

IMMUNOGEN: ASC antibody was raised against a 14 amino acid peptide near the carboxy terminus of human ASC .

The immunogen is located within the last 50 amino acids of ASC.

HOST SPECIES:	Rabbit
Properties	
PURIFICATION:	ASC Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	ASC Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	ASC antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	ASC Antibody: ASC, TMS, TMS1, CARD5, TMS-1, ASC, Apoptosis-associated speck-like protein containing a CARD, Caspase recruitment domain-containing protein 5, hASC
ACCESSION NO.:	BAA87339
PROTEIN GI NO.:	10801602
OFFICIAL SYMBOL:	PYCARD
GENE ID:	29108

Background

BACKGROUND:	ASC Antibody: 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.
REFERENCES:	1) Masumoto J, Taniguchi S, Ayukawa K, Sarvotham H, Kishino T, Niikawa N, Hidaka E, Katsuyama T, Higuchi T, Sagara J. ASC, a novel 22-kDa protein, aggregates during apoptosis of human promyelocytic leukemia HL-60 cells. <i>J Biol Chem.</i> 1999;274(48):33835-8. 2) Masumoto J, Taniguchi S, Nakayama K, Ayukawa K, Sagara J. Murine Ortholog of ASC, a CARD-Containing Protein, Self-Associates and Exhibits Restricted Distribution in Developing Mouse Embryos. <i>Exp Cell Res.</i> 2001;262(2):128-133. 3) Conway KE, McConnell BB, Bowring CE, Donald CD, Warren ST, Vertino PM. TMS1, a novel proapoptotic caspase recruitment domain protein, is a target of methylation-induced gene silencing in human breast cancers. <i>Cancer Res.</i> 2000;60(22):6236-42. 4) McConnell BB, Vertino PM. Activation of a caspase-9-mediated apoptotic pathway by subcellular redistribution of the novel caspase recruitment domain protein TMS1. <i>Cancer Res.</i> 2000;60(22):6243-7. (WD0102)

FOR RESEARCH USE ONLY

March 23, 2018