

ASC Polyclonal Antibody

Product Specifications

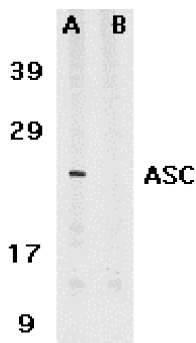
Catalog Number:	905-173
Host:	Rabbit
Species Reactivity:	Human
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	WB: 1 µg/mL
Predicted m.w:	~25 kDa
Concentration:	See product label
Purification:	Affinity Purified
Format:	PBS, 0.02% sodium azide
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at 4 °C
Immunogen:	Synthetic peptide derived from the sequence of human ASC ¹
Related Products:	
SAB-300	Goat anti-Rabbit IgG Polyclonal Antibody, HRP Conjugate
905-188	CARD-9 Polyclonal Antibody
AAP-270	RAIDD Polyclonal Antibody
AAP-460	RICK Polyclonal Antibody
AAP-300	Apaf-1 Polyclonal Antibody
905-686-100	Caspase-9 Monoclonal Antibody (10-1-87)
905-685-100	Caspase-2 Monoclonal Antibody (4-1-5)

Background:

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 identified in human and mouse and designated ASC and TMS1¹⁻³. Ectopic expression of ASC/TMS1 induce s apoptosis through activation of caspase-9 and inhibits the survival of human breast cancer cells^{3,4}. ASC/TMS1 modulates the activity of caspase-1, and can block downstream activation of NF- B^{5,6}, pro-apoptotic roles that are often suppressed by methylation of the ASC/TMS1 gene in many human cancers⁷⁻⁹.

References:

1. Masumoto, J., *et al.* (1999) J Biol Chem. **274**, 33835-33838.
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3. Conway, K.E., *et al.* (2000) Cancer Res. **60**, 6236-6242.
4. McConnell, B.B. and Vertino, P.M. (2000) Cancer Res. **60**, 6243-6247.
5. Srinivasula, S.M., *et al.* (2002) J Biol Chem. **277**, 21119-21122.
6. Stehlik, C., *et al.* (2002) J Exp Med. **196**, 1605-1615.
7. Stone, A.R., *et al.* (2004) Am J Pathol. **165**, 1151-1161.
8. Collard, R.L., *et al.* (2006) Prostate **66**, 687-695.
9. Machida, E.O., *et al.* (2006) Cancer Res. **66**, 6210-6218.



Western blot analysis of ASC in HL60 whole cell lysate in the absence (A) or presence (B) of blocking peptide with ASC Polyclonal Antibody at 1 µg/mL

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