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Datasheet for 600-401-Y67

ASC Antibody

Overview

Description:	Anti-ASC (RABBIT) Antibody - 600-401-Y67
Item No.:	600-401-Y67
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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 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.
Synonyms:	ASC Antibody, ASC, TMS, TMS1, CARD5, TMS-1, ASC, Apoptosis-associated speck-like protein containing a CARD, Caspase recruitment domain-containing protein 5, hASC
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PYCARD
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ASC antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid peptide near the C-terminus of human ASC. The immunogen is located within the last 50 amino acids of ASC.

Purity/Specificity:	Anti-ASC Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ASC from other sources has not been determined. Predicted species reactivity based on immunogen sequence: Mouse (57%), Rat (57%).
Relevant Links:	• UniProtKB - Q9ULZ3 • GeneID - 29108 • NCBI - BAA87339

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-ASC Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry-P, and Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 22 kDa in Western Blots of specific cell lysates and tissues. Positive controls used are HL60 cells, human spleen tissues, and THP-1 cells.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IHC:	2.5µg/mL
WB:	1 µg/mL

Formulation

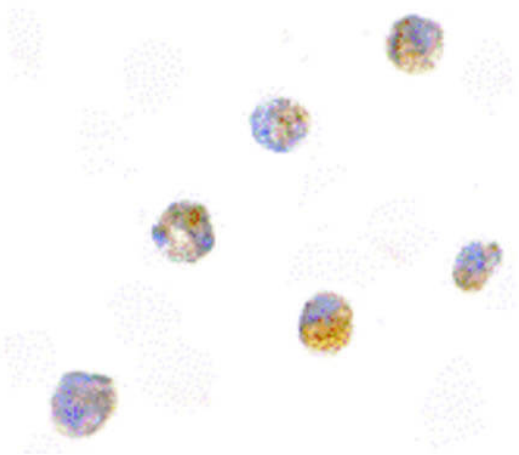
Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

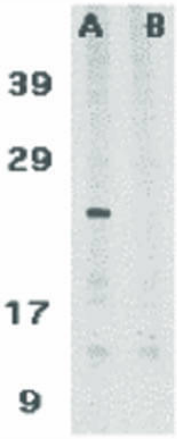
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunocytochemistry
Immunocytochemistry of ASC antibody. Cells: HL60 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ASC antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ASC is nuclear, cytoplasmic, and is also localized in the endoplasmic reticulum and mitochondria. Staining: ASC as precipitated light brown signal with hematoxylin blue nuclear counterstain.



Western Blot
Western Blot of ASC antibody. Lane 1: HL60 whole cell lysate. Lane 2: HL60 whole cell lysate in the presence of blocking peptide. Load: 35 µg per lane. Primary antibody: ASC antibody at 1 µg /ml for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 21.6 kDa, 24 kDa for ASC.

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