

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

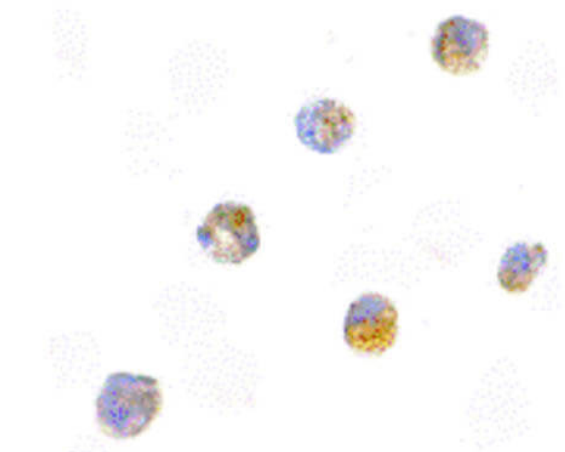
Shipping & Handling

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.

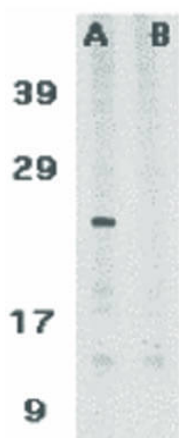
Expiration: Expiration date is one (1) year from date of receipt.

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.