

Datasheet for 600-401-Y64**ARTS Antibody****Overview**

Description:	Anti-ARTS (RABBIT) Antibody - 600-401-Y64
Item No.:	600-401-Y64
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Apoptosis is related to many diseases and development. Mitochondrial proteins, such as cytochrome c, Apaf-1, and AIF play important role in apoptosis. A novel mitochondrial septin-like protein was identified recently and designated ARTS for apoptosis related protein in TGF-beta signaling pathway. ARTS that is encoded by the human septin H5/PNUTL2/CDCrel2b gene is located to mitochondria and translocates to the nucleus when apoptosis occurs. ARTS is expressed in many tissues. It enhances cell death induced by TGF-beta and, to a lesser extent, by other apoptotic agents, such as TNF-a and Fas ligand.
Synonyms:	ARTS Antibody, H5, ARTS, MART, SEP4, CE5B3, PNUTL2, hucep-7, BRADEION, hCDCREL-2, Septin-4, Apoptosis-related protein in the TGF-beta signaling pathway
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SEPT4
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ARTS antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the N-terminus of human ARTS.

Purity/Specificity: Anti-ARTS Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with ARTS from other sources has not been determined.

Relevant Links:

- [UniProtKB - O43236](#)
- [GeneID - 5414](#)
- [NCBI - AAG45673](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-ARTS Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 55 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:20,000

IF: 20 µg/mL

IHC: 2 µg/mL

WB: 2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/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

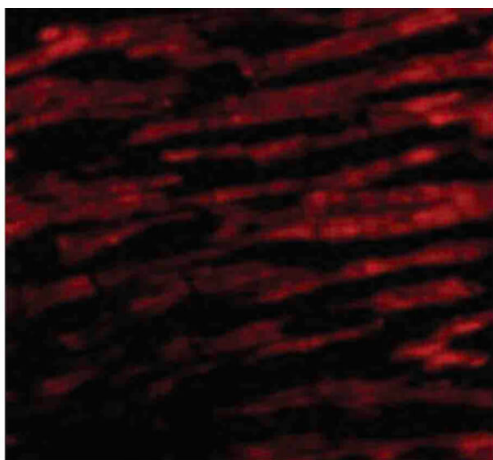
Shipping & Handling

Shipping Condition: Dry Ice

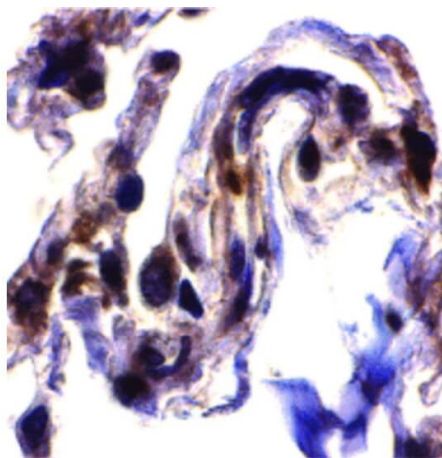
Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted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

Expiration:

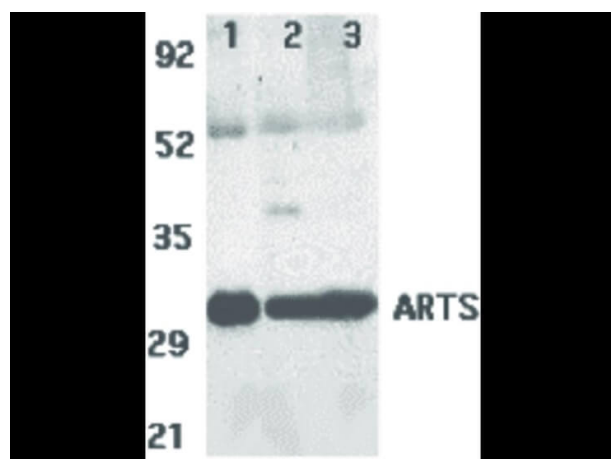
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of ARTS antibody. Cell Type: human lung cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ARTS antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ARTS is cytoplasmic. Staining: ARTS as red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of ARTS antibody. Tissue: human lung tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ARTS antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ARTS is cytoplasmic. Staining: ARTS stained with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of ARTS antibody. Lane 1: human lung. Lane 2: human spleen. Lane 3: human kidney. Load: 35 µg per lane. Primary antibody: ARTS antibody at 2 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: 55 kDa, 31 kDa for ARTS. Other band(s): ARTS splice variants and isoforms.

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.