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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

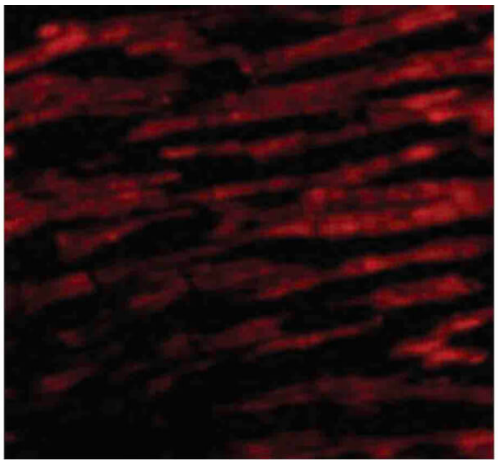
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

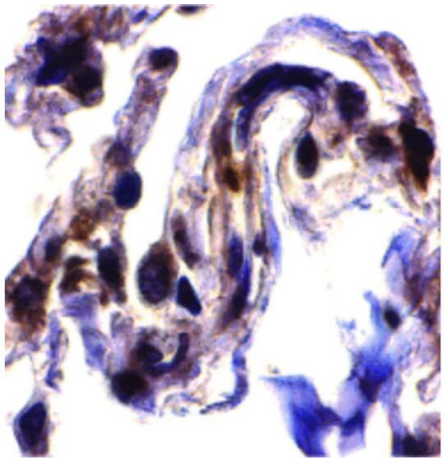
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

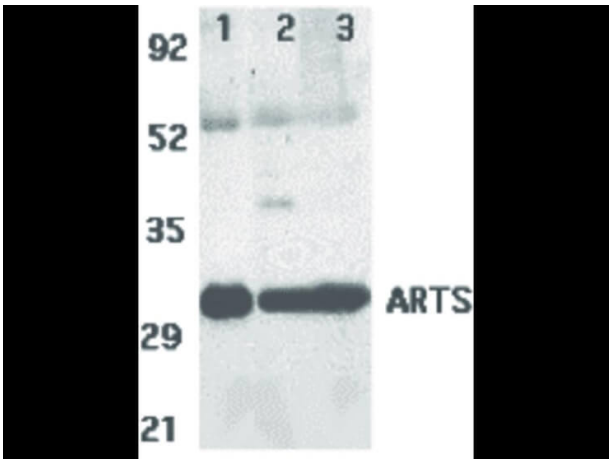
Images



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

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