

Datasheet for 600-401-Y55**ARC Antibody****Overview**

Description:	Anti-ARC (RABBIT) Antibody - 600-401-Y55
Item No.:	600-401-Y55
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 domain containing cell death regulators include RAIDD, Apaf-1, caspase-9, and caspase-2. A novel CARD domain containing protein was recently identified and designated ARC for apoptosis repressor with CARD. ARC interacts with caspase-2 and -8 and inhibits enzymatic activity of caspase-8. ARC suppresses apoptosis induced by cell death adapters FADD and TRADD and by cell death receptors Fas, TNFR-1 and DR3. The messenger RNA of ARC is primarily expressed in skeletal muscle and cardiac tissue.
Synonyms:	ARC Antibody, ARC, FCM, MYP, NOP, NOP30, ARC, Nucleolar protein 3, Apoptosis repressor with CARD, Myp
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NOL3
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ARC antibody was prepared from whole rabbit serum produced by repeated immunizations with a 18 amino acid peptide near the C-terminus of human ARC.

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

Relevant Links:

- [UniProtKB - O60936](#)
- [GeneID - 8996](#)
- [NCBI - NP_003937](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-ARC Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 24 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: 1:10,000

IHC: 5 µg/mL

WB: 1:1,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

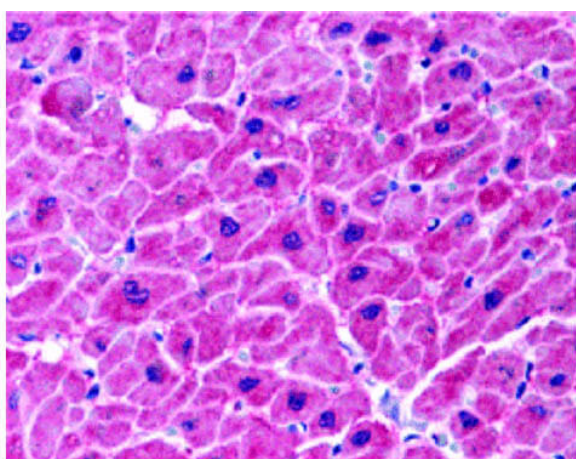
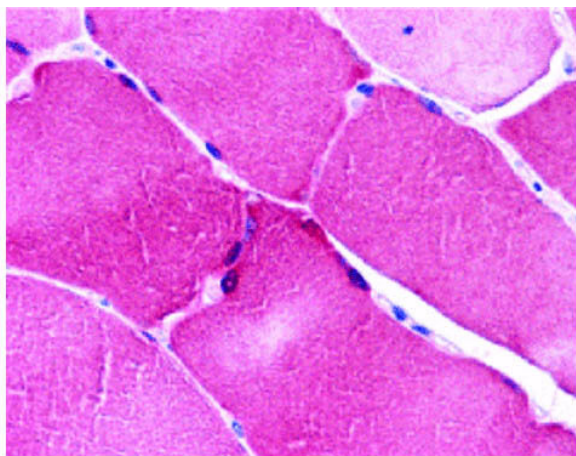
Shipping & Handling

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



Immunohistochemistry

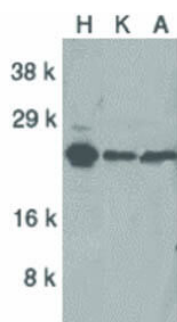
Immunohistochemistry of ARC antibody. Tissue: Human skeletal muscle. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ARC antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ARC is cytoplasmic and occasionally nuclear. Staining: ARC as precipitated pink signal with hematoxylin purple nuclear counterstain.

Immunohistochemistry

Immunohistochemistry of ARC antibody. Tissue: Human heart. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ARC 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: ARC is cytoplasmic and occasionally nuclear. Staining: ARC as precipitated pink signal with hematoxylin purple nuclear counterstain.

Western Blot

Western Blot of ARC antibody. Lane 1: HeLa whole cell lysate. Lane 2: KB whole cell lysate. Lane 3: A549 whole cell lysate. Load: 35 µg per lane. Primary antibody: ARC antibody at 1:1000 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: 22.6 kDa, 26 kDa for ARC. Other band(s): ARC 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.