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ARC Antibody

Catalog # ASC10080

Product Information

Application	WB, E
Primary Accession	O60936
Other Accession	NP_003937, 4505419
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	22629
Conjugate	Unconjugated
Application Notes	ARC antibody can be used for detection of ARC by Western blot at 1:500 dilution. An approximately 25 kDa band can be detected.

Additional Information

Gene ID	8996
Other Names	ARC Antibody: ARC, FCM, MYP, NOP, NOP30, ARC, Nucleolar protein 3, Apoptosis repressor with CARD, Myp, nucleolar protein 3 (apoptosis repressor with CARD domain)
Target/Specificity	NOL3;
Reconstitution & Storage	ARC antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	ARC Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NOL3 (HGNC:7869)
Function	[Isoform 1]: May be involved in RNA splicing.
Cellular Location	[Isoform 1]: Nucleus, nucleolus. Note=The SR-rich C-terminus mediates nuclear localization. [Isoform 2]: Cytoplasm. Mitochondrion {ECO:0000250|UniProtKB:Q62881}. Sarcoplasmic reticulum {ECO:0000250|UniProtKB:Q62881}. Membrane; Lipid-anchor. Note=Phosphorylation at Thr-149 results in translocation to mitochondria. Colocalized with mitochondria in response to oxidative stress. {ECO:0000250|UniProtKB:Q62881}

Tissue Location	Highly expressed in heart and skeletal muscle. Detected at low levels in placenta, liver, kidney and pancreas

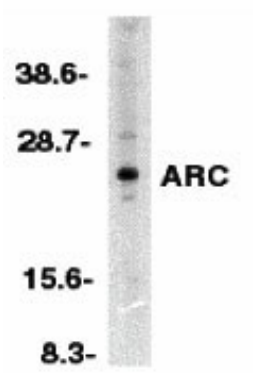
Background

ARC Antibody: 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, 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.

References

Koseki T, Inohara N, Chen S, Nunez G. ARC, an inhibitor of apoptosis expressed in skeletal muscle and heart that interacts selectively with caspases. Proc Natl Acad Sci USA 1998;95:5156-60
Stoss O, Schwaiger FW, Cooper TA, Stamm S. Alternative splicing determines the intracellular localization of the novel nuclear protein Nop30 and its interaction with the splicing factor SRp30c. J Biol Chem 1999;274(16):10951-62
Geertman R, McMahon A, Sabban EL. Cloning and characterization of cDNAs for novel proteins with glutamic acid-proline dipeptide tandem repeats. Biochim Biophys Acta 1996;1306(2-3):147-52 (WD 0300)

Images



Western blot analysis of ARC in HeLa whole cell lysates with ARC antibody at 1:500 dilution.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.