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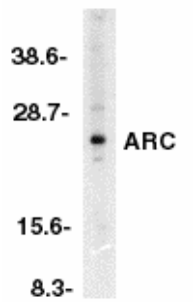
Anti-ARC (NT)

CATALOG No.: PX102A SIZE: 100 µg
PX102B SIZE: 0.5 mg



Western blot analysis of ARC in HeLa whole cell lysates with anti-ARC (NT) at 1:500 dilution.

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, caspase-9, and caspase-2. A novel CARD domain containing protein was recently identified and designated ARC for apoptosis repressor with CARD (1). 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 (1).

SOURCE:

Rabbit anti-ARC (NT) polyclonal antibody was raised against a peptide corresponding to amino acids 2 to 18 of human origin (1). These sequences are identical to those of human nuclear protein Nop30 (2) and differ from those of the rat homolog of ARC by one amino acid (3)

APPLICATION:

This polyclonal antibody can be used for detection of ARC by Western blot at 1:500 dilution. Whole cell lysate from HeLa cells can be used as positive control and an approximately 25 kDa band can be detected. It is human, mouse, and rat reactive. For research use only.

STORAGE:

It is supplied as immunoaffinity chromatography purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

RELATED PRODUCT:

Blocking peptide, 50 µg/250 µl, is available for competition studies. HeLa cell lysate, 200 µg/100 µl, is available for positive control.

REFERENCES:

1. 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

2. 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

3. 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

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.

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