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Polyclonal Antibody to ARC (NT)

Alternate names: Nop30

Catalog No.: SP6271P

Quantity: 50 µg

Concentration: 0.5 mg/ml

Host: Rabbit

Immunogen: 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 homology of ARC by one amino acid (3).

Format: This antibody is supplied as liquid immunoaffinity purified immunglobulin fraction in Phosphate buffered saline with 0.02% sodium azide as preservative.

Applications: Western blot (1 - 500, whole cell lysate from HeLa cells can be used as positive control and an approximately 25 kDa band can be detected). Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
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Specificity: 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).
This antibody detects ARC (NT) and reacts with human, mouse an rat.

Storage: Store the antibody undiluted at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.

General Readings:
1. Koseki T, Inohara N, Chen S, Núñez G. ARC, an inhibitor of apoptosis expressed in skeletal muscle and heart that interacts selectively with caspases. Proc Natl Acad Sci U S A. 1998 Apr 28;95(9):5156-60. PubMed PMID: 9560245.
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 Apr 16;274(16):10951-62. PubMed PMID: 10196175.
3. Geertman R et al (1996) Cloning and characterization of cDNAs for novel proteins with glutamic acid-proline dipeptide tan