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Anti-Apoptosis Repressor With CARD Antibody

Catalog # ABO11102

Specification

Anti-Apoptosis Repressor With CARD Antibody - Product Information

Application	**WB**
Primary Accession	O60936
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Nucleolar protein 3(NOL3) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Apoptosis Repressor With CARD Antibody - Additional Information

Gene ID 8996

Other Names
Nucleolar protein 3 {ECO:0000312|HGNC:HGNC:7869}, Apoptosis repressor with CARD, Muscle-enriched cytoplasmic protein, Myp, Nucleolar protein of 30 kDa, Nop30, NOL3 (HGNC:7869)

Calculated MW
22629 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization
Isoform 1: Nucleus, nucleolus . The SR-rich C-terminus mediates nuclear localization. .

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

Protein Name
Nucleolar protein 3

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human Apoptosis

repressor with CARD(91-106aa WDWQHVGPGYRDRSYD), identical to the related rat sequence, and different from the related mouse sequence by one amino acid.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Contains 1 CARD domain.

Anti-Apoptosis Repressor With CARD Antibody - 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

Anti-Apoptosis Repressor With CARD Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Apoptosis Repressor With CARD Antibody - Images

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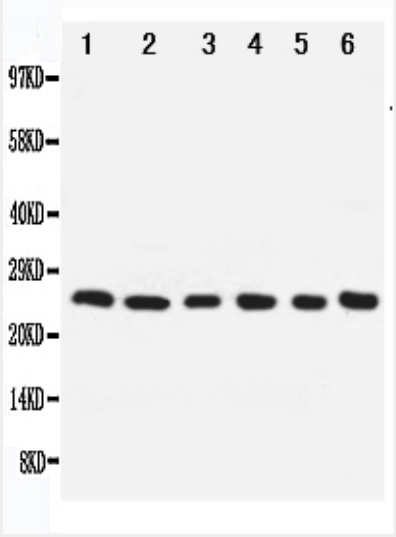

Anti-Apoptosis repressor with CARD antibody, ABO11102, Western blottingLane 1: SMMC Cell Lysate Lane 2: A549 Cell Lysate Lane 3: U87 Cell Lysate Lane 4: HELA Cell Lysate Lane 5: MCF-7 Cell Lysate Lane 6: Rat Liver Tissue Lysate

Anti-Apoptosis Repressor With CARD Antibody - Background

NOL3(Nucleolar protein 3), also known as ARC, NOP30, CARD2 and MYP, is a protein that in humans is encoded by the NOL3 gene. NOL3 has been shown to interact with SFRS9 and Caspase 8. By genomic sequence analysis, Stoss et al.(1999) determined that the NOL3 gene, which encodes NOP30 and MYP and which they called NOP, is composed of 4 exons. The alternative 5-prime splice site that generates the 2 isoforms is located in exon 2. It is reported that expression of the ARC cDNA encoding the smaller transcript inhibited apoptosis in a dose-dependent manner when coexpressed with CASP8 but not when coexpressed with CASP9. ARC also inhibited apoptosis induced by stimulation of CD95/FAS, tumor necrosis factor receptor-1, and TRAMP/death receptor-3. Enzymatic analysis showed that ARC inhibits the enzymatic activity of CASP8. Immunoprecipitation and immunoblot analysis indicated that ARC interacts with CASP2 and CASP8 through its N-terminal death effector domain but does not interact with CASP1, CASP3, or CASP9.