

Anti-Apoptosis Repressor With CARD Antibody

Catalog # ABO11102

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.

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
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.
Source	Eukaryota
Protein Name	Nucleolar protein 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
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 reconstitution, 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.

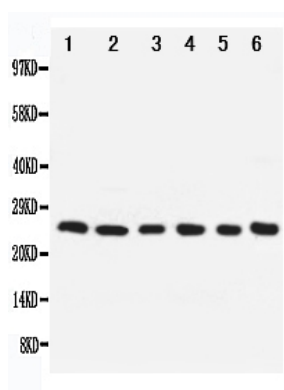
Protein Information

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

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.

Images



Anti-Apoptosis repressor with CARD antibody, ABO11102, Western blotting
Lane 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

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