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Nop30 Antibody

Catalog # ASC10089

Product Information

Application	WB, E
Primary Accession	O60936
Other Accession	AAH12798, 15215394
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	22629
Conjugate	Unconjugated
Application Notes	Nop30 antibody can be used for detection of Nop30 by Western blot at 0.5 - 2 g/mL. Antibody can also be used for immunohistochemistry starting at 0.5 g/mL.

Additional Information

Gene ID	8996
Other Names	Nop30 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	Nop30 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	Nop30 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

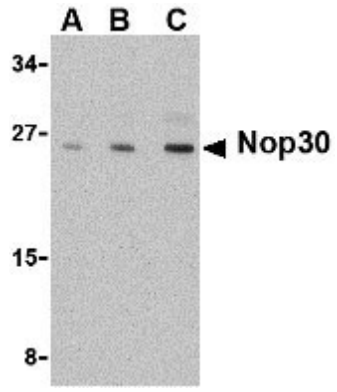
Background

Nop30 Antibody: Apoptosis, also known as programmed cell death, plays major roles in development and normal tissue turnover in addition to tumor formation. Apoptosis is regulated by death domain (DD) and/or caspase recruitment domain (CARD) containing molecules and the caspase family of proteases. CARD domain containing cell death regulators include RAIDD, Apaf-1, caspase-9, and caspase-2. A novel CARD domain containing protein was recently identified and designated ARC for apoptosis repressor with CARD. An alternate splicing isoform of ARC was identified as Nop30. While ARC interacts with caspase-2 and -8 and suppresses apoptosis induced by cell death adapters FADD and TRADD and by cell death receptors Fas, TNFR-1 and DR3, Nop30 multimerizes and binds to the splicing factor SRp30c and may act to influence alternative splice site selection in vivo. The Nop30 antibody will not detect ARC protein.

References

Jin Z and El Deiry WS. Overview of cell death signaling pathways. Cancer Biol. Ther. 2004; 4:139-63.
Koseki T, Inohara N, Chen S, et al. 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, et al. Alternative splicing determines the intracellular localization of the novel nuclear protein Nop30 and its interaction with the splicing factor SRp30c. J. Biol. Chem.1999; 274:10951-62

Images



Western blot analysis of Nop30 in mouse muscle tissue lysate with Nop30 antibody at (A) 0.5, (B) 1 and (C) 2 µg/mL.

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