# ARC Antibody / Apoptosis Repressor with CARD / NOL3 (R30891)

| Catalog No. | Formulation | Size |
|---|---|---|
| R30891 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

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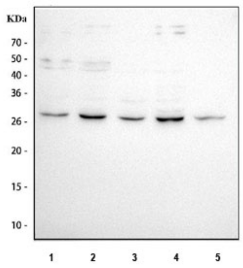
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | O60936 |
| **Applications** | Western Blot : 0.5-1ug/ml |
| **Limitations** | This ARC antibody is available for research use only. |




Western blot testing of 1) human MCF7, 2) human PC-3, 3) human HeLa, 4) human SiHa and 5) rat heart tissue lysate with ARC antibody. Predicted molecular weight: 23-29 kDa (multiple isoforms).

## Description

Apoptosis Repressor with CARD, also known as ARC, NOP30, NOL3, Nucleolar protein 3, 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 two isoforms is located in exon 2. It is reported that expression of the Apoptosis Repressor with CARD/ARC cDNA encoding the smaller transcript inhibited apoptosis in a dose-dependent manner when coexpressed with CASP8 but not when coexpressed with CASP9. The protein 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 -8 through its N-terminal death effector domain but does not interact with CASP1, -3, or -9.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ARC antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Amino acids 91-106 (WDWQHVGPGYRDRSYD-human) were used as the immunogen for this ARC antibody (100% rat homology).

## Storage

After reconstitution, the ARC antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.