

## Anti-Apoptosis repressor with CARD/NOL3 Antibody Picoband®

Catalog Number: PA1793

### About NOL3

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.

### Overview

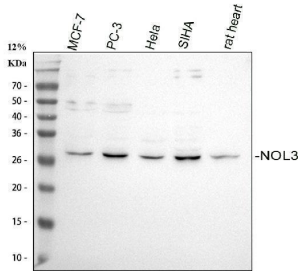
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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Apoptosis repressor with CARD/NOL3 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactive Species     | Human, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Description          | Boster Bio Anti-Apoptosis repressor with CARD/NOL3 Antibody catalog # PA1793. Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.                                                                  |
| Application          | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formulation          | Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.01mg Thimerosal, 0.01mg NaN <sub>3</sub> .<br>*This antibody is supplied in a stabilized formulation.<br>Compatibility with conjugation reactions depends on the chemistry of the conjugation method used.<br>For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                             |
| Host                 | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Uniprot ID           | O60936                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### Technical Details

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

|                               |                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                               | with CARD, identical to the related rat sequence, and different from the related mouse sequence by one amino acid. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.                    |
| Cross Reactivity              | No cross-reactivity with other proteins                                                                            |
| Isotype                       | Rabbit IgG                                                                                                         |
| Form                          | Lyophilized                                                                                                        |
| Concentration                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                          |
| Purification                  | Immunogen affinity purified.                                                                                       |
| Suggested Dilutions           | Western blot, 0.1-0.5ug/ml, Human, Rat                                                                             |

## Anti-Apoptosis repressor with CARD/NOL3 Antibody Picoband® (PA1793) Images



Western blot analysis of NOL3 using anti-NOL3 antibody (A02831-5). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human MCF-7 whole cell lysates, Lane 2: human PC-3 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human SiHa whole cell lysates, Lane 5: rat heart tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NOL3 antigen affinity purified polyclonal antibody (A02831-5) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NOL3 at approximately 27 kDa. The expected band size for NOL3 is at 23 kDa.

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