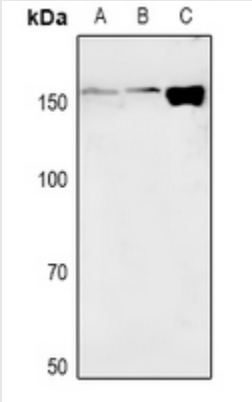
# NAIP Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | NAIP, Polyclonal Antibody |
| **Full Product Name** | Anti-NAIP Antibody |
| **Product Gene Name** | anti-NAIP antibody |
| **Product Synonym Names** | BIRC1; Baculoviral IAP repeat-containing protein 1; Neuronal apoptosis inhibitory protein |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Molecular Weight** | 159,582 Da |
| **Chromosome Location** | Chromosome: 5; NC_000005.9 (70264310..70320941, complement). Location: 5q13.2 |
| **OMIM** | 600355 |
| **3D Structure** | ModBase 3D Structure for Q13075 |
| **Applications Tested/Suitable for anti-NAIP antibody** | Western Blot (WB) |
| **Related Product Information for anti-NAIP antibody** | Rabbit polyclonal antibody to NAIP<br>KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human NAIP. The exact sequence is proprietary. |
| **Other Notes** | Small volumes of anti-NAIP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for NAIP purchase** | MBS9240626 is an antibody targeting NAIP. Reactive in Human, Mouse. Host: Rabbit. |




**Wester Blot (WB) of anti-NAIP antibody**
Dilution: WB (1/500 - 1/1000)Western blot analysis of NAIP expression in HEK293T (A), SGC7901 (B), Raw264.7 (C) whole cell lysates.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NAIP. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 219520065 |
| **NCBI GeneID** | 4671 |
| **NCBI Accession #** | AAI43762.1 |
| **UniProt Primary Accession #** | Q13075 |
| **UniProt Secondary Accession #** | O75857; Q13730; Q59GI6; Q8TDZ4; Q99796; B9EG72; E9PHD1 |
| **UniProt Related Accession #** | Q13075 |
| **NCBI Official Full Name** | NAIP protein |
| **NCBI Official Synonym Full Names** | NLR family, apoptosis inhibitory protein |
| **NCBI Official Symbol** | NAIP |
| **NCBI Official Synonym Symbols** | BIRC1; NLRB1; psiNAIP |
| **UniProt Protein Name** | Baculoviral IAP repeat-containing protein 1 |
| **UniProt Synonym Protein Names** | Neuronal apoptosis inhibitory protein |
| **Protein Family** | Baculoviral IAP repeat-containing protein |
| **UniProt Gene Name** | NAIP |
| **UniProt Synonym Gene Names** | BIRC1 |
| **UniProt Entry Name** | BIRC1_HUMAN |
| **NCBI Protein Information** | baculoviral IAP repeat-containing protein 1; neuronal apoptosis inhibitory protein; psi neuronal apoptosis inhibitory protein; nucleotide-binding oligomerization domain, leucine rich repeat and BIR domain containing 1 |
| **NCBI Summary for NAIP** | This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at least four genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of the sequence have also caused difficulty in determining the organization of this genomic region. This copy of the gene is full length; additional copies with truncations and internal deletions are also present in this region of chromosome 5q13. It is thought that this gene is a modifier of spinal muscular atrophy caused by mutations in a neighboring gene, SMN1. The protein encoded by this gene contains regions of homology to two baculovirus inhibitor of apoptosis proteins, and it is able to suppress apoptosis induced by various signals. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for NAIP** | BIRC1: Anti-apoptotic protein which acts by inhibiting the activities of CASP3, CASP7 and CASP9. Can inhibit the autocleavage of pro-CASP9 and cleavage of pro-CASP3 by CASP9. Capable of inhibiting CASP9 autoproteolysis at 'Asp-315' and decreasing the rate of auto proteolysis at 'Asp-330'. Acts as a mediator of neuronal survival in pathological conditions. Prevents motor- neuron apoptosis induced by a variety of signals. Possible role in the prevention of spinal muscular atrophy that seems to be caused by inappropriate persistence of motor-neuron apoptosis: mutated or deleted forms of NAIP have been found in individuals with severe spinal muscular atrophy.<br><br>Chromosomal Location of Human Ortholog: 5q13.2<br><br>Cellular Component: basolateral plasma membrane; spindle microtubule; cytoplasm; nucleus<br><br>Molecular Function: protein binding; metal ion binding; caspase inhibitor activity; ubiquitin-protein ligase activity; ATP binding<br><br>Biological Process: nervous system development; regulation of signal transduction; innate immune response; protein ubiquitination; negative regulation of caspase activity; negative regulation of neuron apoptosis; inflammatory response; negative regulation of apoptosis |
| **Research Articles on NAIP** | **1.** the NAIP5-NLRC4 inflammasome is induced by direct interactions with conserved N- and C-terminal regions of flagellin |

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