

NAIP Antibody

NAIP (CT): Neuronal apoptosis inhibitory protein

CATALOG No.: 3315

BACKGROUND:

Neuronal apoptosis inhibitor protein (NAIP) was the first human inhibitor of apoptosis protein (IAP) identified and was discovered by its association with the neurodegenerative disorder spinal muscular atrophy (1,2). Members of the IAP family contain one to three copies of an approximately 70 amino acid motif termed baculovirus IAP repeat (BIR); these BIRs promote protein-protein interactions with various caspases such as caspase-3, -7, and -9 as well as members of the TRAF family of signal molecules (reviewed in 3). Unlike other IAPs however, NAIP requires ATP to bind caspase-9 and is not inhibited by the IAP-inhibiting molecule Smac/DIABLO (4), suggesting that NAIP is unique among the IAPs in its regulation of its activity. Finally, although only one human NAIP protein has been identified, other shorter NAIP mRNA transcripts have been reported (5).

SOURCE:

Rabbit polyclonal NAIP antibody was raised against a synthetic peptide corresponding to 13 amino acids at the C-terminus of human NAIP (Genbank accession No. AAC52047).

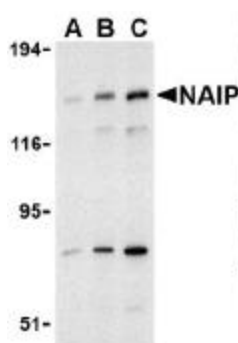
APPLICATION:

NAIP antibody can be used for the detection of NAIP by Western blot at 0.5 to 1 µg/ml. (Optimal dilution should be determined by user.) PC-3 cell lysate can be used as positive control. NAIP antibody is human specific. Minor bands may represent alternately spliced forms.

For research use only.

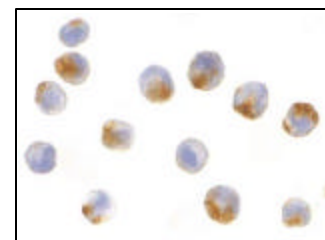
STORAGE:

NAIP antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of NAIP in PC-3 cell lysate with NAIP antibody at (A) 0.5, (B) 1, and (C) 2 µg/ml.

Immunocytochemistry of NAIP in A549 cells with NAIP antibody at 10 µg/ml.



RELATED PRODUCTS:

Blocking peptide, Catalog No. **3315P**.

Smac/DIABLO Antibody, Catalog No. **2409**.

Casp-9 Antibody (IN1), Catalog No. **2071**.

PC-3 Cell Lysate, Catalog No. **1216**.

REFERENCES:

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2. Liston P, Fong WG, Korneluk RG. The inhibitors of apoptosis: there is more to life than Bcl2. *Oncogene* 2003; 22:8568-80.
3. Verhagen AM, Coulson EJ, and Vaux DL. Inhibitor of apoptosis proteins and their relatives: IAPs and other BIRPs. *Genome Biol.* 2001; 2:reviews3009.1-reviews3009.10.
4. Davoodi J, Lin L, Kelly J, et al. Neuronal apoptosis-inhibitory protein does not interact with Smac and requires ATP to bind caspase-9. *J. Biol. Chem.* 2004; 279:40622-8.
5. Yamamoto K, Sakai H, Hadano S, et al. Identification of two distinct transcripts for the neuronal apoptosis inhibitory protein. *Biochem. Biophys. Res. Commun.* 1999; 264:998-1006. (06-01D)