

**DESCRIPTION**

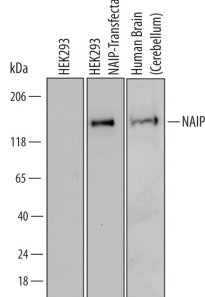
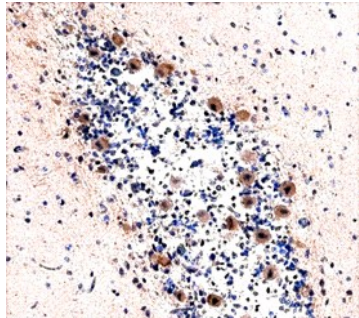
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human NAIP in Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) NAIP or rmNAIP2 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 541609
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human NAIP Asn923-Val1148 Accession # Q13075
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

**DATA**

<p><b>Western Blot</b></p>  <p><b>Detection of Human NAIP by Western Blot.</b> Western blot shows lysates of HEK293 human embryonic kidney cell line either mock transfected or transfected with human NAIP and human brain (cerebellum) tissue. PVDF Membrane was probed with 1 µg/mL of Human NAIP Monoclonal Antibody (Catalog # MAB829) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for NAIP at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using <a href="#">Immunoblot Buffer Group 2</a>.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>NAIP in Human Brain.</b> NAIP was detected in immersion fixed paraffin-embedded sections of human brain (cerebellum) using Human NAIP Monoclonal Antibody (Catalog # MAB829) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to Purkinje neurons. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Neuronal apoptosis inhibitory protein (NAIP; also Baculoviral IAP repeat-containing protein 1) is a 160 kDa member of the inhibitor of apoptosis family of proteins (also known as BIRC proteins). Human NAIP is 1403 amino acids (aa) in length. It contains three distinct regions: an N-terminal cluster of three baculoviral inhibitory repeat (BIR) domains, a central nucleotide binding oligomerization domain (NOD), and a C-terminal leucine-rich repeat (LRR) domain. Human NAIP shares 68% aa identity with mouse NAIP. NAIP is expressed in motor neurons, but not in sensory neurons. It is also expressed in the liver, placenta and to a lesser extent in the spinal cord. NAIP prevents motor neuron apoptosis, and defects in NAIP have been found in individuals with spinal muscular atrophy.