

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse NAIP in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse NAIP2 is observed.                                                                                                                            |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse NAIP<br>Lys783-Ser856<br>Accession # Q9QWK5                                                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

NAIP-1 (Neuronal Apoptosis Inhibitory Protein 1; also Naip and Birc1) is a 150-160 kDa member of both the NLR/PRR and IAP family of proteins. It is widely, but not ubiquitously expressed, and is found in adipocytes, macrophages, neurons, renal proximal and distal convoluted tubules, and nonproliferative intestinal epithelium. NAIP-1 plays a key regulatory role in caspase activation. It promotes caspase-1 activation, blocks caspase-3 and -7 activation, and by binding neuronal hippocalcin, inhibits caspase-3-independent apoptosis. Mouse NAIP-1 is 1403 amino acids (aa) in length. It contains three consecutive N-terminal BIR (Baculovirus Inhibition of apoptosis Repeat) domains (aa 63-346) and one NACHT region (aa 464-758). The BIR #2 domain is posited to bind both caspase-3 and -7, while the BIR domain #3 likely interacts with hippocalcin. NAIP-1 undergoes proteolysis, generating an N-terminal 100 kDa fragment (likely aa 1- ~ 869) and a 60 kDa C-terminal fragment (likely aa 870-1403). The C-terminal fragment undergoes further processing to generate a 25 kDa and 35 kDa fragment. There are at least seven numbered NAIP genes in mouse that have arisen by gene duplication. Over the aa range 783-856, they share less than 60% aa sequence identity with NAIP-1. Over the same aa range, mouse NAIP-1 shares 54% aa sequence identity with the only human NAIP gene.

#### PRODUCT SPECIFIC NOTICES

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