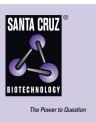
SANTA CRUZ BIOTECHNOLOGY, INC.

NALP2 (S-20): sc-50619



BACKGROUND

NALP2 (PAN1, PYPAF2) is a 1,062 amino acid protein that catalyzes the suppression of TNF- and CD40-induced NF κ B1 activity at the level of the IKK complex by inhibiting NF κ BIA degradation induced by TNF. When associated with PYCARD, NALP2 activates CASP1, which leads to the secretion of mature proinflammatory cytokine IL-1 β . NALP2 is a putative component of the inflammasome, a protein complex which also includes PYCARD, CARD8 and CASP1. As a probable member of the inflammasome, a protein complex which also includes PYCARD, CARD8 and CASP1. As a probable member of the inflammasome, a protein complex which also includes PYCARD, CARD8 and CASP1. NALP2 may be involved in the activation of proinflammatory caspases. NAPL2 shows predominant expression in lung, placenta and thymus tissues, and demonstrates lower levels of expression in ovary, intestine and brain tissues. NAPL2 contains one DAPIN domain, nine LRR (leucine-rich) repeats and one NACHT domain. The DAPIN domain is crucial for the suppression of NF κ B1 activation and for inducing IL-1 β secretion in collaboration with caspase-1.

REFERENCES

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- Trouwborst, A., Yanagida, H., Erdmann, W. and Kok, A. 1984. Mechanism of neuroadenolysis of the pituitary for cancer pain control. Appl. Neurophysiol. 47: 97-110.
- Yanagida, H., Corssen, G., Trouwborst, A. and Erdmann, W. 1984. Relief of cancer pain in man: alcohol-induced neuroadenolysis vs. electrical stimulation of the pituitary gland. Pain 19: 133-141.
- Morimoto, M., Harano, K., Hirakawa, N. and Totoki, T. 1991. Diffusion of alcohol upon application of neuroadenolysis of the pituitary gland (NALP). An experimental study using HRP and WGA-HRP in the cat. Fukuoka Igaku Zasshi 82: 475-479.
- Bruey, J.M., Bruey-Sedano, N., Newman, R., Chandler, S., Stehlik, C. and Reed, J.C. 2004. PAN1/NALP2/PYPAF2, an inducible inflammatory mediator that regulates NFκB and caspase-1 activation in macrophages. J. Biol. Chem. 279: 51897-907.

CHROMOSOMAL LOCATION

Genetic locus: NALP2 (human) mapping to 19q13.42.

SOURCE

NALP2 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NALP2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50619 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

NALP2 (S-20) is recommended for detection of all isoforms of NALP2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NALP2 siRNA (h): sc-61143, NALP2 shRNA Plasmid (h): sc-61143-SH and NALP2 shRNA (h) Lentiviral Particles: sc-61143-V.

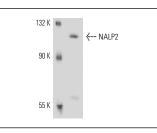
Molecular Weight of NALP2: 121 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, K-562 whole cell lysate: sc-2203 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



NALP2 (S-20): sc-50619. Western blot analysis of NALP2 expression in K-562 whole cell lysate.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

MONOS Satisfation Guaranteed Try NALP2 (H-4): sc-166584 or NALP2 (E-5): sc-365935, our highly recommended monoclonal alternatives to NALP2 (S-20).

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