



NALP11 (N-19): sc-50615

BACKGROUND

The NACHT-, LRR- and PYD-containing protein (NALP) family functions in the regulation of apoptosis and inflammatory signaling pathways. Members of the NALP family (also designated Pyrin-containing APAF1-like proteins) include NALP1 through NALP11. Several family members, such as NALP1, NALP2, NALP3 and NALP6, influence NF κ B and caspase pathways as components of the inflammasome. NALP11 is a 1,033 amino acid member of the NALP family with the typical PYD-NACHT-LRR domain structure. It is implicated in the activation of proinflammatory caspases via its involvement in multiprotein complexes called inflammasomes.

REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 609662. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
2. Chamaillard, M., et al. 2003. Nods, NALPs and NAIP: intracellular regulators of bacterial-induced inflammation. *Cell. Microbiol.* 5: 581-592.
3. Tschopp, J., et al. 2003. NALPs: a novel protein family involved in inflammation. *Nat. Rev. Mol. Cell Biol.* 4: 95-104.
4. Hiller, S., et al. 2003. NMR structure of the apoptosis- and inflammation-related NALP1 Pyrin domain. *Structure* 11: 1199-1205.
5. Sanz, C., et al. 2004. NALP1 is a transcriptional target for cAMP-response-element-binding protein (CREB) in myeloid leukaemia cells. *Biochem. J.* 384: 281-286.
6. Liu, F., et al. 2004. Expression of NALP1 in cerebellar granule neurons stimulates apoptosis. *Cell. Signal.* 16: 1013-1021.
7. Damiano, J.S., et al. 2004. Heterotypic interactions among NACHT domains: implications for regulation of innate immune responses. *Biochem. J.* 381: 213-219.
8. Kinoshita, T., et al. 2005. PYPAF3, a Pyrin-containing APAF1-like protein, is a feedback regulator of caspase-1-dependent interleukin-1 β secretion. *J. Biol. Chem.* 280: 21720-21725.
9. Torosyan, Y., et al. 2006. Distinct effects of Annexin A7 and p53 on arachidonate lipoygenation in prostate cancer cells involve 5-Lipoxygenase transcription. *Cancer Res.* 66: 9609-9616.

CHROMOSOMAL LOCATION

Genetic locus: NLRP11 (human) mapping to 19q13.42.

SOURCE

NALP11 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of NALP11 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50615 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NALP11 (N-19) is recommended for detection of all NALP11 isoforms of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for NALP11 siRNA (h): sc-61142.

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) 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.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.