SANTA CRUZ BIOTECHNOLOGY, INC.

NALP9 (C-17): sc-50648

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

NACHT-, LRR- and PYD-containing protein (NALP) family function 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 NFκB and caspase pathways as components of the inflammasome. NALP5 (also designated Mater) is a maternal effect protein required for early embryonic development. Most short NALPs, such as NALP9 (NOD6), have a C-terminal leucine-rich repeat (LRR) region, an N-terminal pyrin (MEFV) domain (PYD) followed by a NACHT domain, and a NACHT-associated domain (NAD). The 986 amino acid NALP9 protein has the characteristic PYD-NACHT-LRR domain structure found in the NALP family and the NALP9 gene maps to chromosome 19q13.42, in a cluster with several other NALP genes.

REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 609663. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
2. Dalbiès-Tran, R., Papillier, P., Pennetier, S., Uzbekova, S. and Monget, P. 2005. Bovine Mater-like NALP9 is an oocyte marker gene. Mol. Reprod. Dev. 71: 414-421.
3. Drygin, D., Koo, S., Perera, R., Barone, S. and Bennett, C.F. 2005. Induction of Toll-like receptors and NALP/PAN/PYPAF family members by modified oligonucleotides in lung epithelial carcinoma cells. Oligonucleotides 15: 105-118.
4. Ponsuksili, S., Brunner, R.M., Goldammer, T., Kühn, C., Walz, C., Chomdej, S., Tesfaye, D., Schellander, K., Wimmers, K. and Schwerin, M. 2006. Bovine NALP5, NALP8, and NALP9 genes: assignment to a QTL region and the expression in adult tissues, oocytes, and preimplantation embryos. Biol. Reprod. 74: 577-584.

CHROMOSOMAL LOCATION

Genetic locus: NLRP9 (human) mapping to 19q13.42.

SOURCE

NALP9 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of NALP9 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-50648 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

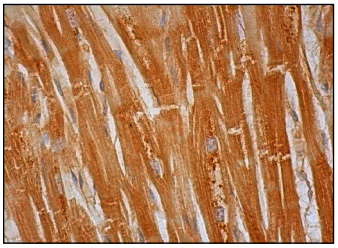
NALP9 (C-17) is recommended for detection of NALP9 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution 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 NALP9 siRNA (h): sc-61151, NALP9 shRNA Plasmid (h): sc-61151-SH and NALP9 shRNA (h) Lentiviral Particles: sc-61151-V.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



NALP9 (C-17) : sc-50648. Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart muscle tissue showing cytoplasmic staining of myocytes.

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.