



NALP14 (M-190): sc-68859

BACKGROUND

NALP14 (NACHT, LRR and PYD domains-containing protein 14) is a testis-specific nucleotide binding protein. It is a member of the NLRP family and contains one DAPIN (Pyrin, AIM, ASC and death domain-like (PAAD)) domain, eleven LRR (leucine-rich) repeats and one NACHT domain. NALP proteins most often act as intracellular receptors involved in innate immunity. NALP14 has been linked to spermatogenesis but more likely functions as an inflammatory component. The inflammasome comprises a NALP member and an ASC adapter that ensures caspase-1 recruitment to the inflammasome. Different types of inflammasomes are stimulated by a wide variety of microbial, foreign and endogenous materials.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NLRP14 (human) mapping to 11p15.4; Nlrp14 (mouse) mapping to 7 E3.

SOURCE

NALP14 (M-190) is a rabbit polyclonal antibody raised against amino acids 199-388 mapping within an internal region of NALP14 of mouse origin.

PRODUCT

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

APPLICATIONS

NALP14 (M-190) is recommended for detection of NALP14 of mouse and rat 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 NALP14 siRNA (m): sc-77410.

Molecular Weight of NALP14: 125 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.