

# NLRR4 (N-14): sc-98047

## BACKGROUND

NLRR4 (neuronal leucine-rich repeat protein 4) is a 740 amino acid single-pass type-I transmembrane protein that contains one fibronectin type-III protein and 10 LRR (leucine-rich) repeats. Leucine-rich repeats are 20-30 amino acid stretches that are unusually rich in the hydrophobic amino acid leucine and are frequently involved in the formation of protein-protein interactions. NLRR4 deficient mice show impaired memory retention in hippocampus-dependent tasks, showing that it may be involved in long-term memory. The gene encoding NLRR4 maps to human chromosome 20, which contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: LRRN4 (human) mapping to 20p12.3; Lrrn4 (mouse) mapping to 2 F2.

## SOURCE

NLRR4 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of NLRR4 of human origin.

## RESEARCH USE

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

## 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-98047 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

NLRR4 (N-14) is recommended for detection of NLRR4 of mouse, rat and 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 NLRR4 siRNA (h): sc-75932, NLRR4 siRNA (m): sc-150005, NLRR4 shRNA Plasmid (h): sc-75932-SH, NLRR4 shRNA Plasmid (m): sc-150005-SH, NLRR4 shRNA (h) Lentiviral Particles: sc-75932-V and NLRR4 shRNA (m) Lentiviral Particles: sc-150005-V.

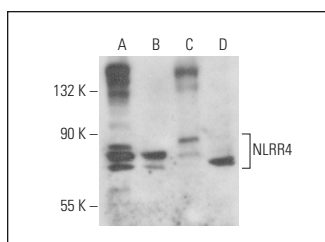
Molecular Weight of NLRR4: 79 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, mouse liver extract: sc-2256 or mouse kidney extract: sc-2255.

## 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



NLRR4 (N-14): sc-98047. Western blot analysis of NLRR4 expression in HeLa whole cell lysate (A) and mouse kidney (B), mouse liver (C) and mouse lung (D) tissue extracts.

## STORAGE

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