SANTA CRUZ BIOTECHNOLOGY, INC.

NHLRC4 (E-19): sc-244014



BACKGROUND

NHLRC4 (NHL-repeat-containing protein 4) is a 123 amino acid protein that contains 2 NHL repeats and is encoded by a gene that maps to human chromosome 16p13.3. Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene.

REFERENCES

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- Bomont, P., et al. 2000. The gene encoding gigaxonin, a new member of the cytoskeletal BTB/kelch repeat family, is mutated in giant axonal neuropathy. Nat. Genet. 26: 370-374.
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CHROMOSOMAL LOCATION

Genetic locus: NHLRC4/C16orf11 (human) mapping to 16p13.3; Nhlrc4 (mouse) mapping to 17 A3.3.

SOURCE

NHLRC4 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of NHLRC4 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-244014 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

NHLRC4 (E-19) is recommended for detection of NHLRC4 and FLJ36208 of human origin and NHLRC4 of mouse 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with Malin, NHLRC2 or NHLRC3.

NHLRC4 (E-19) is also recommended for detection of NHLRC4 and FLJ36208 in additional species, including bovine.

Suitable for use as control antibody for NHLRC4 siRNA (m): sc-144990, NHLRC4 shRNA Plasmid (m): sc-144990-SH and NHLRC4 shRNA (m) Lentiviral Particles: sc-144990-V.

Molecular Weight of NHLRC4: 13 kDa.

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) Immunofluo-rescence: 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.

PROTOCOLS

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