

ANKS3 (S-13): sc-138124

BACKGROUND

ANKS3 (Ankyrin repeat and sterile α motif domain containing 3) is a 656 amino acid protein that contain six ANK repeats and one SAM (sterile α motif) domain. The gene encoding ANKS3 maps to human chromosome 16. Chromosome 16, which is associated with a variety of genetic disorders, encodes over 900 genes and comprises nearly 3% of the human genome. 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 associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANKS3 (human) mapping to 16p13.3; Anks3 (mouse) mapping to 16 A1.

SOURCE

ANKS3 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ANKS3 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-138124 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ANKS3 (S-13) is recommended for detection of ANKS3 of mouse, rat and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with ANKS4B or ANKS6 .

Suitable for use as control antibody for ANKS3 siRNA (h): sc-93369, ANKS3 siRNA (m): sc-141119, ANKS3 shRNA Plasmid (h): sc-93369-SH, ANKS3 shRNA Plasmid (m): sc-141119-SH, ANKS3 shRNA (h) Lentiviral Particles: sc-93369-V and ANKS3 shRNA (m) Lentiviral Particles: sc-141119-V.

Molecular Weight (predicted) of ANKS3: 72 kDa.

Molecular Weight (observed) of ANKS3: 92 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) 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.