NCYM (C-16): sc-168719



The Power to Question

BACKGROUND

NCYM, also known as MYCNOS (v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian) opposite strand), CYMN or N-myc opposite strand, is a 109 amino acid protein that is hypothesized to play a role in normal fetal development. NCYM is located on the opposite DNA strand to N-myc, an oncogene implicated in the pathogenesis of many human tumors, and both proteins are coregulated in tumor cell lines. This finding suggests that NCYM and N-myc may have similar functions during development and oncogenesis. Expressed in kidney, lung, liver and fetal brain, NCYM is encoded by a gene that maps to human chromosome 2p24.3. Chromosome 2 consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin icthyosis, sitosterolemia and Alström syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MYCNOS (human) mapping to 2p24.3.

SOURCE

NCYM (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of NCYM 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-168719 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NCYM (C-16) is recommended for detection of NCYM 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of NCYM: 12 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat lgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat lgG-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 lgG-FITC: sc-2024 (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.

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