

NCKAP5L (S-17): sc-248058

BACKGROUND

NCKAP5L (NCK-associated protein 5-like) is a 1,330 amino acid protein that exists as 4 alternatively spliced isoforms. The gene encoding NCKAP5L maps to human chromosome 12, which encodes over 1,100 genes within 132 million bases, and comprises about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12, including hypochondrogenesis, achondrogenesis and Kniest dysplasia. Noonan syndrome, which includes heart and facial developmental defects among the primary symptoms, is caused by a mutant form of PTPN11 gene product, SH-PTP2. Chromosome 12 is also home to a homeobox gene cluster, which encodes crucial transcription factors for morphogenesis, and the natural killer complex gene cluster, encoding C-type lectin proteins which mediate the NK cell response to MHC I interaction. Trisomy 12p leads to facial development defects, seizure disorders and a host of other symptoms which vary in severity depending on the extent of mosaicism. It is most severe in cases of complete trisomy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NCKAP5L (human) mapping to 12q13.12; Nckap5l (mouse) mapping to 15 F1.

SOURCE

NCKAP5L (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of NCKAP5L 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-248058 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NCKAP5L (S-17) is recommended for detection of NCKAP5L 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).

NCKAP5L (S-17) is also recommended for detection of NCKAP5L in additional species, including bovine and porcine.

Suitable for use as control antibody for NCKAP5L siRNA (h): sc-95803, NCKAP5L siRNA (m): sc-141881, NCKAP5L shRNA Plasmid (h): sc-95803-SH, NCKAP5L shRNA Plasmid (m): sc-141881-SH, NCKAP5L shRNA (h) Lentiviral Particles: sc-95803-V and NCKAP5L shRNA (m) Lentiviral Particles: sc-141881-V.

Molecular Weight of NCKAP5L isoforms: 139/135/11/137 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.

PROTOCOLS

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