SANTA CRUZ BIOTECHNOLOGY, INC.

CCDC60 (G-18): sc-246166

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The coiled-coil domain is a structural motif found in proteins that are involved in a diverse array of biological functions such as the regulation of gene expression, cell division, membrane fusion and drug extrusion and delivery. CCDC60 (coiled-coil domain containing 60) is a 550 amino acid protein encoded by a gene that maps to human chromosome 12q24.23. Genetic variations within the CCDC60 gene have been linked to renal cell carcinomas and schizophrenia. Encoding over 1,100 genes, chromosome 12 comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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9. Yusenko, M.V., et al. 2010. Molecular analysis of germline t(3;6) and t(3;12) associated with conventional renal cell carcinomas indicates their rate-limiting role and supports the three-hit model of carcinogenesis. Cancer Genet. Cytogenet. 201: 15-23.

CHROMOSOMAL LOCATION

Genetic locus: CCDC60 (human) mapping to 12q24.23; Ccdc60 (mouse) mapping to 5 F.

SOURCE

CCDC60 (G-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CCDC60 of human origin.

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-246166 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCDC60 (G-18) is recommended for detection of CCDC60 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 other CCDC family members.

CCDC60 (G-18) is also recommended for detection of CCDC60 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CCDC60 siRNA (h): sc-96222, Ccdc60 siRNA (m): sc-142126, CCDC60 shRNA Plasmid (h): sc-96222-SH, Ccdc60 shRNA Plasmid (m): sc-142126-SH, CCDC60 shRNA (h) Lentiviral Particles: sc-96222-V and Ccdc60 shRNA (m) Lentiviral Particles: sc-142126-V.

Molecular Weight of CCDC60: 63 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.