SANTA CRUZ BIOTECHNOLOGY, INC.

CCDC132 (S-19): sc-163994

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Chromosome 7 is about 158 milllion bases long, encodes over 1000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to Osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia. CCDC132 (coiled-coil domain containing 132) is a 964 amino acid protein that is located on chromosome 7. Two isoforms of CCDC132 exist due to alternative splicing events.

REFERENCES

1. Tsipouras, P., et al. 1983. Restriction fragment length polymorphism associated with the pro α2(I) gene of human type I procollagen. Application to a family with an autosomal dominant form of Osteogenesis imperfecta. J. Clin. Invest. 72: 1262-1267.
2. Hillier, L.W., et al. 2003. The DNA sequence of human chromosome 7. Nature 424: 157-164.
3. Liang, H., et al. 1998. Molecular anatomy of chromosome 7q deletions in myeloid neoplasms: evidence for multiple critical loci. Proc. Natl. Acad. Sci. USA 95: 3781-3785.
4. Eckert, M.A., et al. 2006. The neurobiology of Williams syndrome: cascading influences of visual system impairment? Cell. Mol. Life Sci. 63: 1867-1875.
5. Osborne, L.R., et al. 2006. Williams-Beuren syndrome diagnosis using fluorescence *in situ* hybridization. Methods Mol. Med. 126:113-128.
6. Reiner, O., et al. 2006. Lissencephaly 1 linking to multiple diseases: mental retardation, neurodegeneration, schizophrenia, male sterility, and more. Neuromolecular Med. 8: 547-565.
7. Shimamura, A. 2006. Shwachman-Diamond syndrome. Semin. Hematol. 43: 178-188.

CHROMOSOMAL LOCATION

Genetic locus: CCDC132 (human) mapping to 7q21.3; Ccdc132 (mouse) mapping to 6 A1.

SOURCE

CCDC132 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of CCDC132 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-163994 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCDC132 (S-19) is recommended for detection of CCDC132 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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.

CCDC132 (S-19) is also recommended for detection of CCDC132 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CCDC132 siRNA (h): sc-89551, CCDC132 siRNA (m): sc-142076, CCDC132 shRNA Plasmid (h): sc-89551-SH, CCDC132 shRNA Plasmid (m): sc-142076-SH, CCDC132 shRNA (h) Lentiviral Particles: sc-89551-V and CCDC132 shRNA (m) Lentiviral Particles: sc-142076-V.

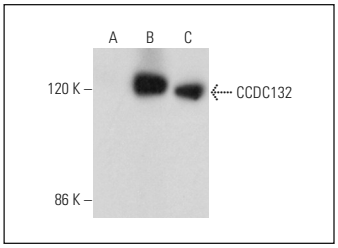
Molecular Weight of CCDC132: 111 kDa.

Positive Controls: CCDC132 (m2): 293T Lysate: sc-119063 or HeLa whole cell lysate: sc-2200.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



CCDC132 (S-19): sc-163994. Western blot analysis of CCDC132 expression in non-transfected 293T: sc-117752 (**A**), mouse CCDC132 transfected 293T: sc-119063 (**B**) and HeLa (**C**) whole cell lysates.

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.