

CCDC92 (E-19): sc-242382

BACKGROUND

CCDC92 (coiled-coil domain-containing protein 92) is a 331 amino acid protein encoded by a gene that maps to human chromosome 12q24.31. Encoding over 1,100 genes within 132 million bases, chromosome 12 makes up 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 that mediate the NK cell response to MHC I interaction. Trisomy 12p leads to facial development defects, seizure disorders and a host of other symptoms that vary in severity depending on the extent of mosaicism. It is most severe in cases of complete trisomy.

REFERENCES

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- Yokoyama, T., et al. 2003. A case of Kniest dysplasia with retinal detachment and the mutation analysis. *Am. J. Ophthalmol.* 136: 1186-1188.
- Forzano, F., et al. 2007. A familial case of achondrogenesis type II caused by a dominant COL2A1 mutation and "patchy" expression in the mosaic father. *Am. J. Med. Genet. A* 143: 2815-2820.
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CHROMOSOMAL LOCATION

Genetic locus: CCDC92 (human) mapping to 12q24.31; Ccdc92 (mouse) mapping to 5 F.

SOURCE

CCDC92 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CCDC92 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-242382 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

CCDC92 (E-19) is recommended for detection of CCDC92 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 proteins.

CCDC92 (E-19) is also recommended for detection of CCDC92 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CCDC92 siRNA (h): sc-95990, CCDC92 siRNA (m): sc-142157, CCDC92 shRNA Plasmid (h): sc-95990-SH, CCDC92 shRNA Plasmid (m): sc-142157-SH, CCDC92 shRNA (h) Lentiviral Particles: sc-95990-V and CCDC92 shRNA (m) Lentiviral Particles: sc-142157-V.

Molecular Weight of CCDC92: 37 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.

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.