

CCDC112 (E-12): sc-132223

BACKGROUND

CCDC112 (coiled-coil domain containing 112), also known as MBC1 (mutated in bladder cancer 1), is a 446 amino acid protein. The gene encoding CCDC112 is located on chromosome 5. Due to alternative splicing events, CCDC112 exists as two isoforms. Chromosome 5 comprises about 6% of human genomic DNA and contains 181 million base pairs encoding around 1,000 genes. It is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CCDC112 (human) mapping to 5q22.3; Ccdc112 (mouse) mapping to 18 C.

SOURCE

CCDC112 (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CCDC112 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-132223 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCDC112 (E-12) is recommended for detection of CCDC112 isoforms 1 and 2 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.

Suitable for use as control antibody for CCDC112 siRNA (h): sc-91830, CCDC112 siRNA (m): sc-142057, CCDC112 shRNA Plasmid (h): sc-91830-SH, CCDC112 shRNA Plasmid (m): sc-142057-SH, CCDC112 shRNA (h) Lentiviral Particles: sc-91830-V and CCDC112 shRNA (m) Lentiviral Particles: sc-142057-V.

Molecular Weight of CCDC112: 54 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.