SANTA CRUZ BIOTECHNOLOGY, INC.

Cochlin (C-15): sc-48975



BACKGROUND

Cochlin is a secreted protein encoded by the coagulation factor C homology (COCH) gene, a cochlear gene. It constitutes 70% of the inner ear proteins and is classified into three glycosylated isoforms: p63s, p44s and p40. Cochlin contains an N-terminal LCCL domain and two von Willebrand factor A-like domains. Mutations in the COCH gene cause DFNA9, an autosomal dominant nonsyndromic auditory and vestibular dysfunction disorder, as a result of either an amino acid deletion in the LCCL domain or missense substitutions. Micro-fibrillar deposits accumulate in the inner ear of individuals with DFNA9 and these deposits may contain the Cochlin protein. Cochlin is a target antigen for autoimmune sensorineural hearing loss.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: COCH (human) mapping to 14q12; Coch (mouse) mapping to 12 C1.

SOURCE

Cochlin (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Cochlin of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-48975 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Cochlin (C-15) is recommended for detection of Cochlin 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).

Cochlin (C-15) is also recommended for detection of Cochlin in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Cochlin siRNA (h): sc-60427, Cochlin siRNA (m): sc-60428, Cochlin shRNA Plasmid (h): sc-60427-SH, Cochlin shRNA Plasmid (m): sc-60428-SH, Cochlin shRNA (h) Lentiviral Particles: sc-60427-V and Cochlin shRNA (m) Lentiviral Particles: sc-60428-V.

Molecular Weight of Cochlin: 60 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) Immunofluo-rescence: 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.