

α -tectorin (H-300): sc-98277

BACKGROUND

α -tectorin (also designated TECTA) is an important non-collagenous component of the tectorial membrane which is an extracellular matrix of the inner ear. The tectorial membrane covers the cochlea's neuroepithelium and contacts the stereocilia bundles of specialized sensory hair cells. Sound gets transduced into electrical signals by the movement of these hair cells relative to the tectorial membrane as the stereocilia deflect and cause fluctuations in hair-cell membrane potential. The α -tectorin protein can form homomeric or heteromeric filaments after self-association or association with β -tectorin, respectively. Mutations in the α -tectorin gene can cause autosomal dominant non-syndromic sensorineural deafness. The localization of these mutations in different modules of the protein may cause different clinical features.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TECTA (human) mapping to 11q23.3; Tecta (mouse) mapping to 9 A5.1.

SOURCE

α -tectorin (H-300) is a rabbit polyclonal antibody raised against amino acids 1791-2090 mapping near the C-terminus of α -tectorin of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

α -tectorin (H-300) is recommended for detection of α -tectorin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

α -tectorin (H-300) is also recommended for detection of α -tectorin in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for α -tectorin siRNA (h): sc-45730, α -tectorin siRNA (m): sc-45731, α -tectorin shRNA Plasmid (h): sc-45730-SH, α -tectorin shRNA Plasmid (m): sc-45731-SH, α -tectorin shRNA (h) Lentiviral Particles: sc-45730-V and α -tectorin shRNA (m) Lentiviral Particles: sc-45731-V.

Molecular Weight of α -tectorin: 239 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.