

α T-catenin (H-65): sc-98616

BACKGROUND

The catenins (α , β , γ and δ) are ubiquitously expressed, cytoplasmic proteins that associate with E-cadherin at cellular junctions. Catenin/cadherin complexes play an important role in mediating cellular adhesion. α T-catenin, also referred to as VR22, is a 895 amino acid protein that is most abundantly expressed in cardiomyocytes and in the peritubular myoid cells of the testis. α T-catenin binds to α E-catenin as well as to β -catenin, and it functions to inhibit Wnt signaling. CTNNA3, the gene that encodes for α -T-catenin, is located on chromosome 10, and mutations in this gene show a strong correlation to late-onset Alzheimer's disease (LOAD) as well as to dilated cardiomyopathy.

CHROMOSOMAL LOCATION

Genetic locus: CTNNA3 (human) mapping to 10q21.3; Ctnna3 (mouse) mapping to 10 B4.

SOURCE

α T-catenin (H-65) is a rabbit polyclonal antibody raised against amino acids 61-125 mapping near the N-terminus of α T-catenin of human origin.

PRODUCT

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

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.

APPLICATIONS

α T-catenin (H-65) is recommended for detection of α T-catenin 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 T-catenin (H-65) is also recommended for detection of α T-catenin in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for α T-catenin siRNA (h): sc-61904, α T-catenin siRNA (m): sc-61905, α T-catenin shRNA Plasmid (h): sc-61904-SH, α T-catenin shRNA Plasmid (m): sc-61905-SH, α T-catenin shRNA (h) Lentiviral Particles: sc-61904-V and α T-catenin shRNA (m) Lentiviral Particles: sc-61905-V.

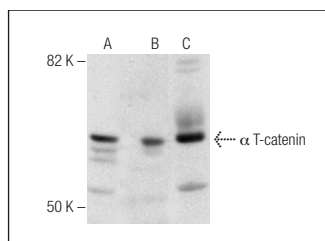
Molecular Weight of α T-catenin: 100 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, A-10 cell lysate: sc-3806 or human heart extract: sc-363763.

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.

DATA



α T-catenin (H-65): sc-98616. Western blot analysis of α T-catenin expression in Hep G2 (A) and A-10 (B) whole cell lysates and human heart tissue extract (C).

SELECT PRODUCT CITATIONS

1. Rahimov, F., et al. 2011. Gene expression profiling of skeletal muscles treated with a soluble activin type IIB receptor. *Physiol. Genomics* 43: 398-407.

PROTOCOLS

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



Try α T-catenin (B-6): **sc-398138** or α T-catenin (212): **sc-81794**, our highly recommended monoclonal alternatives to α T-catenin (H-65).