

TCP-1 η (C-9): sc-374617

BACKGROUND

The protein TCP-1 (t complex polypeptide 1) is a subunit of the hetero-oligomeric complex CCT (chaperonin containing TCP-1) present in the eukaryotic cytosol. The CCT of eukaryotic cytosol is composed of eight different subunit species, TCP-1 α , β , γ , δ , ϵ , ζ , η and θ , each encoded by a different gene. Two ζ subunits have been described: TCP-1 ζ (also designated TCP-1 ζ 1) and TCP-1 ζ 2. TCP-1 subunits are proposed to have independent functions in folding its *in vivo* substrates, the Actins and Tubulins. TCP-1 was first identified in the mouse as relevant for tailless and embryonic lethal phenotypes. Sequences homologous to TCP-1 have been isolated in several other species, and the yeast TCP-1 has been shown to encode a molecular chaperone for Actin and Tubulin. TCP-1 found in mammalian cells and yeast plays an important role in the folding of cytosolic proteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CCT7 (human) mapping to 2p13.2; Cct7 (mouse) mapping to 6 C3.

SOURCE

TCP-1 η (C-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 3-29 at the N-terminus of TCP-1 η of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 μ g IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-374617 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

TCP-1 η (C-9) is recommended for detection of TCP-1 η of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

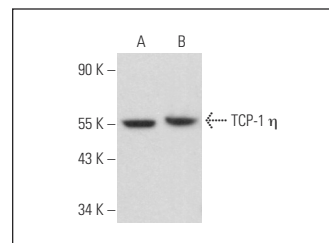
TCP-1 η (C-9) is also recommended for detection of TCP-1 η in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TCP-1 η siRNA (h): sc-43449, TCP-1 η siRNA (m): sc-43450, TCP-1 η shRNA Plasmid (h): sc-43449-SH, TCP-1 η shRNA Plasmid (m): sc-43450-SH, TCP-1 η shRNA (h) Lentiviral Particles: sc-43449-V and TCP-1 η shRNA (m) Lentiviral Particles: sc-43450-V.

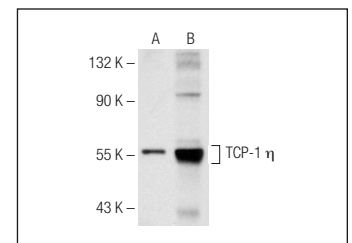
Molecular Weight of TCP-1 η : 58 kDa.

Positive Controls: T24 cell lysate: sc-2292, MOLT-4 cell lysate: sc-2233 or HeLa whole cell lysate: sc-2200.

DATA



TCP-1 η (C-9): sc-374617. Western blot analysis of TCP-1 η expression in K-562 (A) and MOLT-4 (B) whole cell lysates.



TCP-1 η (C-9): sc-374617. Western blot analysis of TCP-1 η expression in HeLa (A) and T24 (B) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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