SANTA CRUZ BIOTECHNOLOGY, INC.

TCP-1 α (84a): sc-53453



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 that 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 tail-less 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: TCP1 (human) mapping to 6q25.3; Tcp1 (mouse) mapping to 17 A1.

SOURCE

TCP-1 α (84a) is a rat monoclonal antibody raised against the C-terminal half of full length TCP of murine origin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 $\mu g~lg G_{2a}$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TCP-1 α (84a) is recommended for detection of TCP-1 α of mouse, rat, human and hamster origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TCP-1 α siRNA (h): sc-36620, TCP-1 α siRNA (m): sc-36621, TCP-1 α shRNA Plasmid (h): sc-36620-SH, TCP-1 α shRNA Plasmid (m): sc-36621-SH, TCP-1 α shRNA (h) Lentiviral Particles: sc-36620-V and TCP-1 α shRNA (m) Lentiviral Particles: sc-36621-V.

Molecular Weight of TCP-1 α : 60 kDa.

Positive Controls: F9 cell lysate: sc-2245, mouse testis extract: sc-2405 or HeLa whole cell lysate: sc-2200.

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.