# TCP-1 $\eta$ (H-4): sc-390492



The Power to Question

# **BACKGROUND**

The protein TCP-1 (t complex polypeptide 1) is a subunit of the heterooligomeric 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  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$ ,  $\epsilon$ ,  $\xi$ ,  $\eta$  and  $\theta$ , each encoded by a different gene. Two  $\xi$  subunits have been described: TCP-1  $\xi$  (also designated TCP-1  $\xi$ 1) and TCP-1  $\xi$ 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 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: CCT7 (human) mapping to 2p13.2.

# **SOURCE**

TCP-1  $\eta$  (H-4) is a mouse monoclonal antibody raised against amino acids 77-365 mapping within an internal region of TCP-1  $\eta$  of human origin.

# **PRODUCT**

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

# **APPLICATIONS**

TCP-1  $\eta$  (H-4) is recommended for detection of TCP-1  $\eta$  of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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)

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

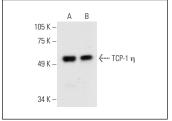
Molecular Weight of TCP-1  $\eta$ : 58 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or HL-60 whole cell lysate: sc-2209.

# **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz\* Blocking Reagent: sc-516214 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 m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz\* Mounting Medium: sc-24941 or UltraCruz\* Hard-set Mounting Medium: sc-359850.

#### DATA



TCP-1  $\eta$  (H-4): sc-390492. Western blot analysis of TCP-1  $\eta$  expression in HL-60 (**A**) and HeLa (**B**) whole call heater

#### **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 for detailed protocols and support products.