

# CESK1 (T-17): sc-86377

## BACKGROUND

CESK1, also known as CCT8L2 (chaperonin containing TCP1, subunit 8  $\theta$ -like 2), is a 557 amino acid protein that localizes to the cytoplasm and is thought to function as a molecular chaperone, possibly assisting protein folding after ATP hydrolysis. CESK1 belongs to the TCP-1 chaperonin family and is encoded by a gene which maps to human chromosome 22. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein Bcr-Abl, a potent cell proliferation activator found in several types of leukemias.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CCT8L2 (human) mapping to 22q11.1, CCT8L1P (human) mapping to 7q36.1.

## SOURCE

CESK1 (T-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of CESK1 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86377 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CESK1 (T-17) is recommended for detection of CESK1 and CCT8L1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

CESK1 (T-17) is also recommended for detection of CESK1 and CCT8L1 in additional species, including canine.

Molecular Weight (predicted) of CESK1: 59 kDa.

Molecular Weight (observed) of CESK1: 43 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) 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.