



## CTF18 (T-12): sc-109245

### BACKGROUND

CTF18 (chromosome transmission fidelity factor 18 homolog) is a 975 amino acid protein encoded by the human gene CHTF18. CTF18 is a protein that is structurally related to the Rad24 and RFC (replication factor C) proteins. CTF18 is believed to form a novel RFC complex and functions redundantly with Rad24 in the DNA replication block checkpoint. The CTF18-RFC complex is a seven-subunit structure that consists of the four small subunits of RFC, together with CTF18, DCC1 and CTF8. This RFC complex is responsible for loading the replication clamp PCNA (proliferating cell nuclear antigen) onto DNA and functions in DNA replication and repair. Regulated unloading of PCNA during the progression and termination of DNA replication does not seem to be a function of the CTF18-RFC complex.

### REFERENCES

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- Kanellis, P., Agyei, R. and Durocher, D. 2003. Elg1 forms an alternative PCNA-interacting RFC complex required to maintain genome stability. *Curr. Biol.* 13: 1583-1595.
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### CHROMOSOMAL LOCATION

Genetic locus: CHTF18 (human) mapping to 16p13.3; Chtf18 (mouse) mapping to 17 A3.3.

### SOURCE

CTF18 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CTF18 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 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-109245 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

CTF18 (T-12) is recommended for detection of CTF18 of mouse, rat and 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).

Suitable for use as control antibody for CTF18 siRNA (h): sc-93208, CTF18 siRNA (m): sc-142617, CTF18 shRNA Plasmid (h): sc-93208-SH, CTF18 shRNA Plasmid (m): sc-142617-SH, CTF18 shRNA (h) Lentiviral Particles: sc-93208-V and CTF18 shRNA (m) Lentiviral Particles: sc-142617-V.

Molecular Weight of CTF18: 107 kDa.

Positive Controls: HT-1080 whole cell lysate.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### 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.