

CTC1 Rabbit pAb

CatalogNo: YN8636

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB

MW

- 134kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human CTC1

Specificity This antibody detects endogenous levels of CTC1 at Human, Mouse

Target Information

Gene name CTC1 C17orf68

Protein Name CST complex subunit CTC1 (Conserved telomere maintenance component 1) (HBV DNAPT1-transactivated protein B)

Organism	Gene ID	UniProt ID
Human	80169 ;	Q2NKJ3 ;
Mouse	68964 ;	Q5SUQ9 ;

Cellular Localization Nucleus . Chromosome, telomere . A transmembrane region is predicted by sequence analysis tools (ESKW, MEMSAT and Phobius); however, given the telomeric localization of the protein, the relevance of the transmembrane region is unsure in vivo. .

Function Component of the CST complex proposed to act as a specialized replication factor promoting DNA replication under conditions of replication stress or natural replication barriers such as the telomere duplex. The CST complex binds single-stranded DNA with high affinity in a sequence-independent manner, while isolated subunits bind DNA with low affinity by themselves. Initially the CST complex has been proposed to protect telomeres from DNA degradation . However, the CST complex has been shown to be involved in several aspects of telomere replication. The CST complex inhibits telomerase and is involved in telomere length homeostasis; it is proposed to bind to newly telomerase-synthesized 3' overhangs and to terminate telomerase action implicating the association with the ACD:POT1 complex thus interfering with its telomerase stimulation activity. The CST complex is also proposed to be involved in fill-in synthesis of the telomeric C-strand probably implicating recruitment and activation of DNA polymerase alpha . The CST complex facilitates recovery from many forms of exogenous DNA damage; seems to be involved in the re-initiation of DNA replication at repaired forks and/or dormant origins . Involved in telomere maintenance . Involved in genome stability . May be involved in telomeric C-strand fill-in during late S/G2 phase (By similarity).

Validation Data

Contact information

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CTC1 Rabbit pAb

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