

OBFC1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57577

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9H668
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42119

Additional Information

Gene ID	79991
Other Names	CST complex subunit STN1, Oligonucleotide/oligosaccharide-binding fold-containing protein 1, Suppressor of cdc thirteen homolog, STN1 (HGNC:26200), OBFC1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	STN1 (HGNC:26200)
Synonyms	OBFC1
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 (PubMed: 19854130). 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 (PubMed:[22763445](#), PubMed:[22964711](#)). 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 (PubMed:[25483097](#)). Required for efficient replication of the duplex region of the telomere. Promotes efficient replication of lagging-strand telomeres (PubMed:[22863775](#), PubMed:[22964711](#)). Promotes general replication start following replication-fork stalling implicating new origin firing (PubMed:[22863775](#)). May be involved in C-strand fill-in during late S/G2 phase independent of its role in telomere duplex replication (PubMed:[23142664](#)).

Cellular Location Nucleus. Chromosome, telomere

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