

CHTF18 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12986B**Specification**

CHTF18 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q8WVB6
Other Accession	NP_071375.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	107383
Antigen Region	914-943

CHTF18 Antibody (C-term) - Additional Information**Gene ID** 63922**Other Names**

Chromosome transmission fidelity protein 18 homolog, hCTF18, CHL12, CHTF18, C16orf41, CTF18

Target/Specificity

This CHTF18 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 914-943 amino acids from the C-terminal region of human CHTF18.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CHTF18 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CHTF18 Antibody (C-term) - Protein Information**Name** CHTF18**Synonyms** C16orf41, CTF18

Function Chromosome cohesion factor involved in sister chromatid cohesion and fidelity of chromosome transmission. Component of one of the cell nuclear antigen loader complexes, CTF18-replication factor C (CTF18-RFC), which consists of CTF18, CTF8, DCC1, RFC2, RFC3, RFC4 and RFC5. The CTF18-RFC complex binds to single-stranded and primed DNAs and has weak ATPase activity that is stimulated by the presence of primed DNA, replication protein A (RPA) and by proliferating cell nuclear antigen (PCNA). The CTF18-RFC complex catalyzes the ATP- dependent loading of PCNA onto primed and gapped DNA. Interacts with and stimulates DNA polymerase POLH. During DNA repair synthesis, involved in loading DNA polymerase POLE at the sites of local damage (PubMed:[20227374](#)).

Cellular Location

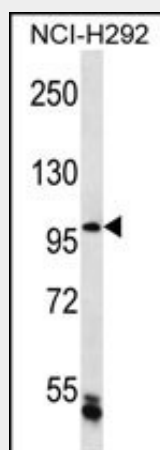
Nucleus. Note=Associates with chromatin during S phase

CTHF18 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CTHF18 Antibody (C-term) - Images



CTHF18 Antibody (C-term) (Cat. #AP12986b) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the CTF18 antibody detected the CTF18 protein (arrow).

CTHF18 Antibody (C-term) - Background

CTHF18, CTF8 (MIM 613202), and DCC1 (DSCC1; MIM 613203) are components of an alternative replication factor C (RFC) (see MIM 600404) complex that loads PCNA (MIM 176740) onto DNA during S phase of the cell cycle (Merkle et al., 2003 [PubMed 12766176]; Bermudez et al., 2003 [PubMed 12930902]).

CTHF18 Antibody (C-term) - References

Murakami, T., et al. J. Biol. Chem. 285(45):34608-34615(2010)
Farina, A., et al. J. Biol. Chem. 283(30):20925-20936(2008)
Shiomi, Y., et al. J. Biol. Chem. 282(29):20906-20914(2007)
Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004)