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CHTF18 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12986b

Specification

CHTF18 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q8WVB6

CHTF18 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 63922

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CHTF18 Antibody (C-term) Blocking peptide - 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

CHTF18 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

CHTF18 Antibody (C-term) Blocking peptide - Images

CHTF18 Antibody (C-term) Blocking peptide - Background

CHTF18, CHTF8 (MIM 613202), and DCC1 (DSCC1; MIM 613203)are components of an alternative replication factor C (RFC) (seeMIM 600404) complex that loads PCNA (MIM 176740) onto DNA during Sphase of the cell cycle (Merkle et al., 2003 [PubMed 12766176];Bermudez et al., 2003 [PubMed 12930902]).

CHTF18 Antibody (C-term) Blocking peptide - 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)