

RECQL5 Antibody(Center) Blocking peptide
Synthetic peptide
Catalog # BP19444c**Specification**

RECQL5 Antibody(Center) Blocking peptide - Product InformationPrimary Accession [O94762](#)**RECQL5 Antibody(Center) Blocking peptide - Additional Information****Gene ID** 9400**Other Names**

ATP-dependent DNA helicase Q5, DNA helicase, RecQ-like type 5, RecQ5, RecQ protein-like 5, RECQL5, RECQ5

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.

RECQL5 Antibody(Center) Blocking peptide - Protein Information**Name** RECQL5**Synonyms** RECQ5 {ECO:0000303|PubMed:9878247}**Function**

DNA helicase that plays an important role in DNA replication, transcription and repair (PubMed:20643585, PubMed:22973052, PubMed:28100692). Probably unwinds DNA in a 3'-5' direction (Probable) (PubMed:28100692). Binds to the RNA polymerase II subunit POLR2A during transcription elongation and suppresses transcription-associated genomic instability (PubMed:20231364). Also associates with POLR1A and enforces the stability of ribosomal DNA arrays (PubMed:27502483). Plays an important role in mitotic chromosome separation after cross-over events and cell cycle progress (PubMed:22013166). Mechanistically, removes RAD51 filaments protecting stalled replication forks at common fragile sites and stimulates MUS81-EME1 endonuclease leading to mitotic DNA synthesis (PubMed:<a

[28575661](http://www.uniprot.org/citations/28575661)). Required for efficient DNA repair, including repair of inter-strand cross-links (PubMed:[23715498](http://www.uniprot.org/citations/23715498)). Stimulates DNA decatenation mediated by TOP2A. Prevents sister chromatid exchange and homologous recombination. A core helicase fragment (residues 11-609) binds preferentially to splayed duplex, looped and ssDNA (PubMed:[28100692](http://www.uniprot.org/citations/28100692)).

Cellular Location

[Isoform Beta]: Nucleus, nucleoplasm. Nucleus Note=Recruited to sites of DNA damage, such as single-strand breaks and inter-strand cross-links, and at stalled replication forks. Re-localizes from the nucleolus into the nucleus after replicative stress and significantly associates with WRN during S-phase (PubMed:23180761) [Isoform Gamma]: Cytoplasm

Tissue Location

Ubiquitous..

RECQL5 Antibody(Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

RECQL5 Antibody(Center) Blocking peptide - Images**RECQL5 Antibody(Center) Blocking peptide - Background**

RECQL5 may have an important role in DNA metabolism.

RECQL5 Antibody(Center) Blocking peptide - References

Schwendener, S., et al. J. Biol. Chem. 285(21):15739-15745(2010)Islam, M.N., et al. Mol. Cell. Biol. 30(10):2460-2472(2010)Speina, E., et al. Nucleic Acids Res. 38(9):2904-2916(2010)Aygun, O., et al. J. Biol. Chem. 284(35):23197-23203(2009)Aygun, O., et al. Proc. Natl. Acad. Sci. U.S.A. 105(25):8580-8584(2008)