

RECQL5 Antibody(Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19444c**Specification**

RECQL5 Antibody(Center) - Product Information

Application	WB,E
Primary Accession	O94762
Other Accession	NP_001003715.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	662-691

RECQL5 Antibody(Center) - 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

Target/Specificity

This RECQL5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 662-691 amino acids from the Central region of human RECQL5.

Dilution

WB~~1:1000

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

RECQL5 Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RECQL5 Antibody(Center) - 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 (PubMed:[28100692](#)) (Probable). Binds to the RNA polymerase II subunit POLR2A during transcription elongation and suppresses transcription- associated genomic instability (PubMed:[20231364](#)). Associates also 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:[28575661](#)). Required for efficient DNA repair, including repair of inter-strand cross-links (PubMed:[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](#)).

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

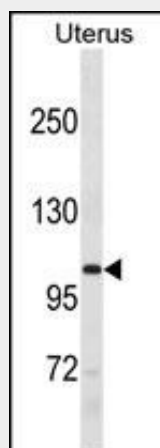
Ubiquitous..

RECQL5 Antibody(Center) - 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](#)

RECQL5 Antibody(Center) - Images



RECQL5 Antibody (Center) (Cat. #AP19444c) western blot analysis in human Uterus tissue lysates (35ug/lane). This demonstrates the RECQL5 antibody detected the RECQL5 protein (arrow).

RECQL5 Antibody(Center) - Background

RECQL5 may have an important role in DNA metabolism.

RECQL5 Antibody(Center) - 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)