10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RECQL Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20349c

Product Information

Application	WB, E
Primary Accession	P46063
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42761
Calculated MW	73457
Antigen Region	187-215

Additional Information

Gene ID	5965
Other Names	ATP-dependent DNA helicase Q1, DNA helicase, RecQ-like type 1, RecQ1, DNA-dependent ATPase Q1, RecQ protein-like 1, RECQL, RECQ1, RECQL1
Target/Specificity	This RECQL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 187-215 amino acids from the Central region of human RECQL.
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	RECQL Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RECQL {ECO:0000303|PubMed:7961977}
Synonyms	RECQ1, RECQL1
Function	DNA helicase that plays a role in DNA damage repair and genome stability (PubMed:15886194, PubMed:35025765, PubMed:7527136, PubMed:7961977,

PubMed:8056767). Exhibits a Mg(2+)- and ATP-dependent DNA-helicase activity that unwinds single- and double-stranded DNA in a 3'-5' direction (PubMed:19151156, PubMed:35025765, PubMed:7527136, PubMed:8056767). Full-length protein unwinds forked DNA substrates, resolves Holliday junctions, and has DNA strand annealing activity (PubMed:19151156, PubMed:25831490). Plays a role in restoring regressed replication forks (PubMed:35025765). Required to restart stalled replication forks induced by abortive topoisomerase 1 and 2 lesions (PubMed:35025765). Does not unwind G-quadruplex DNA (PubMed:18426915). May play a role in the repair of DNA that is damaged by ultraviolet light or other mutagens (PubMed:15886194, PubMed:7961977).

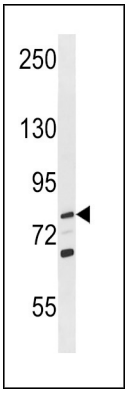
Cellular Location Nucleus

Tissue Location High expression in heart, lung, skeletal muscle and kidney, low expression in brain.

Background

DNA helicase that may play a role in the repair of DNA that is damaged by ultraviolet light or other mutagens. Exhibits a magnesium-dependent ATP-dependent DNA-helicase activity that unwinds single-and double-stranded DNA in a 3'-5' direction.

Images



RECQL Antibody (Center) (Cat. #AP20349c) western blot analysis in U-937 cell line lysates (35ug/lane).This demonstrates the RECQL antibody detected the RECQL protein (arrow).