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RECQ1 Rabbit pAb

Catalog # AP97232

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P46063
Other Accession	P46063
Reactivity	Rat
Predicted	Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73457
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RECQ1
Epitope Specificity	231-330/649
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the helicase family. RecQ subfamily Contains 1 helicase ATP-binding domain Contains 1 helicase C-terminal domain.
SUBUNIT	Interacts with EXO1 and MLH1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a member of the RecQ DNA helicase family. DNA helicases are enzymes involved in various types of DNA repair, including mismatch repair, nucleotide excision repair and direct repair. Some members of this family are associated with genetic disorders with predisposition to malignancy and chromosomal instability. The biological function of this helicase has not yet been determined. Two alternatively spliced transcripts, which encode the same isoform but differ in their 5' and 3' UTRs, have been described. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	5965
Other Names	RECON; RECQL1; RecQ1; RECQ1_HUMAN; RECQL; DNA 3'-5' helicase Q1; DNA helicase, RecQ-like type 1 (RecQ1); DNA-dependent ATPase Q1; RecQ protein-like 1; 5.6.2.4; RECQ1_MOUSE; RecQ like helicase; RecQ protein-like (DNA helicase Q1-like); RecQ helicase-like; DNA helicase Q1-like
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.