

RECQL4 Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19458b

Product Information

Application	IHC-P, WB, E
Primary Accession	O94761
Other Accession	NP_004251.3
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40513
Calculated MW	133067
Antigen Region	1134-1162

Additional Information

Gene ID	9401
Other Names	ATP-dependent DNA helicase Q4, DNA helicase, RecQ-like type 4, RecQ4, RTS, RecQ protein-like 4, RECQL4, RECQ4
Target/Specificity	This RECQL4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1134-1162 amino acids from the C-terminal region of human RECQL4.
Dilution	IHC-P~~1:100 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	RECQL4 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RECQL4
Synonyms	RECQ4 {ECO:0000303 PubMed:9878247}
Function	An ATP-dependent DNA helicase which unwinds dsDNA with a 3'- overhang

in a 3'-5' direction (PubMed:[28653661](#)). Does not unwind more than 18 bp of dsDNA (PubMed:[28653661](#)). May modulate chromosome segregation. The N-terminal domain (residues 1-54) binds DNA Y-shaped DNA better than ss- or dsDNA (PubMed:[22730300](#)). The core helicase domain binds ssDNA (PubMed:[22730300](#), PubMed:[28653661](#)).

Cellular Location

Cytoplasm. Nucleus

Tissue Location

Ubiquitously expressed, with highest levels in thymus and testis.

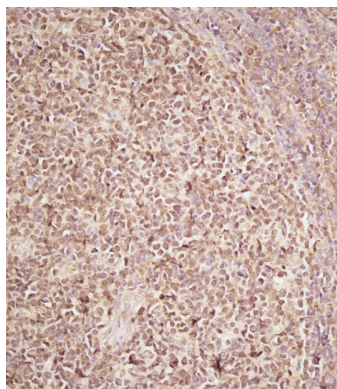
Background

The protein encoded by this gene is a DNA helicase that belongs to the RecQ helicase family. DNA helicases unwind double-stranded DNA into single-stranded DNAs and may modulate chromosome segregation. This gene is predominantly expressed in thymus and testis. Mutations in this gene are associated with Rothmund-Thomson, RAPADILINO and Baller-Gerold syndromes. [provided by RefSeq].

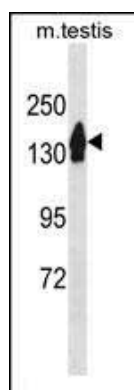
References

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Xu, X., et al. EMBO J. 28(19):3005-3014(2009)
Im, J.S., et al. Proc. Natl. Acad. Sci. U.S.A. 106(37):15628-15632(2009)

Images



Immunohistochemical analysis of AP19458B on paraffin-embedded Human tonsil tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



RECQL4 Antibody (C-term) (Cat. #AP19458b) western blot analysis in mouse testis tissue lysates (35ug/lane). This demonstrates the RECQL4 antibody detected the RECQL4 protein (arrow).