



# Anti-RECQL4 antibody ab188125

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## Overview

<b>Product name</b>	Anti-RECQL4 antibody
<b>Description</b>	Rabbit polyclonal to RECQL4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human RECQL4 aa 150-350. Database link: <a href="#">O94761</a>
	 <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	IHC-P: Human thyroid gland tissue. ICC/IF: A431 cells. WB: U-2 OS cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab188125 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml.
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 133 kDa.

## Target

### Function

DNA-dependent ATPase. May modulate chromosome segregation.

### Tissue specificity

Ubiquitously expressed, with highest levels in thymus and testis.

### Involvement in disease

Defects in RECQL4 are a cause of Rothmund-Thomson syndrome (RTS) [MIM:268400]. A disease characterized by dermatological features such as atrophy, pigmentation, and telangiectasia and frequently accompanied by juvenile cataract, saddle nose, congenital bone defects, disturbances of hair growth, and hypogonadism.

Defects in RECQL4 are a cause of RAPADILINO syndrome (RAPADILINOS) [MIM:266280]. A disease characterized by radial and patellar aplasia or hypoplasia.

Defects in RECQL4 are a cause of Baller-Gerold syndrome (BGS) [MIM:218600]; also known as craniosynostosis with radial defects. BGS is an autosomal recessive syndrome characterized by short stature, craniosynostosis, absent or hypoplastic radii, short and curved ulna, fused carpal bones and absent carpals, metacarpals and phalanges. Some patients manifest poikiloderma. Cases reported as Baller-Gerold syndrome have phenotypic overlap with several other disorders, including Saethre-Chotzen syndrome. BGS is part of the clinical spectrum of Rothmund-Thomson and RAPADILINO syndromes.

### Sequence similarities

Belongs to the helicase family. RecQ subfamily.

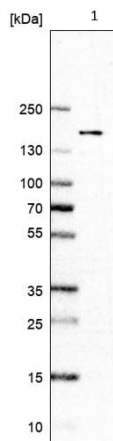
Contains 1 helicase ATP-binding domain.

Contains 1 helicase C-terminal domain.

### Cellular localization

Cytoplasm. Nucleus.

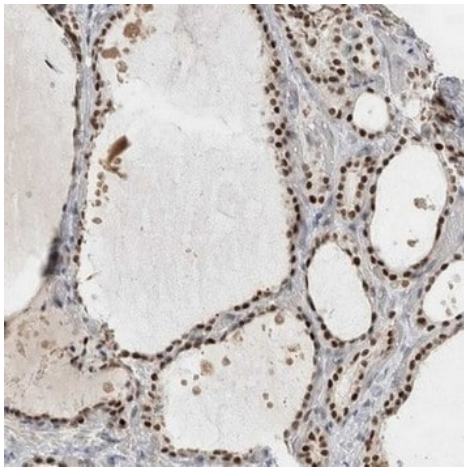
## Images



Western blot - Anti-RECQL4 antibody (ab188125)

Anti-RECQL4 antibody (ab188125) at 0.4  $\mu\text{g/ml}$  + U-2 OS cells

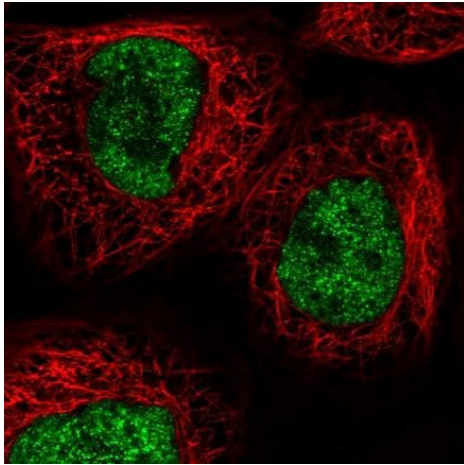
**Predicted band size: 133 kDa**



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RECQL4 antibody (ab188125)

Paraffin embedded human thyroid gland tissue stained for RECQL4 using ab188125 at 1/50 dilution in immunohistochemical analysis.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before the IHC staining protocol.



Immunocytochemistry/ Immunofluorescence staining of human cell line A431 staining RECQL4 with ab188125. Antibody staining is shown in green.

Immunocytochemistry/ Immunofluorescence - Anti-RECQL4 antibody (ab188125)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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