



# Anti-DNA Polymerase theta antibody ab111218

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### Overview

<b>Product name</b>	Anti-DNA Polymerase theta antibody
<b>Description</b>	Rabbit polyclonal to DNA Polymerase theta
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide: H FSSLDIAV CT IERANGL INR LIEENK MDLL GMVVV DELHM LGDS HRGYLL, corresponding to amino acids 180-230 of Human DNA Polymerase theta  <a href="#">Run BLAST with</a> <a href="#">Expasy</a>  <a href="#">Run BLAST with</a> <a href="#">NCBI</a>
<b>Positive control</b>	Human breast carcinoma tissue.
<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 -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49.1% PBS, 0.88% Sodium chloride, 50% Glycerol
<b>Purity</b>	without Mg <sup>2+</sup> and Ca <sup>2+</sup> Immunogen affinity purified
<b>Purification notes</b>	ab111218 was affinity-purified from Rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab111218 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		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

Has a DNA polymerase activity on nicked double-stranded DNA and on a singly primed DNA template. The enzyme activity is resistant to aphidicolin, and inhibited by dideoxynucleotides. Exhibits a single-stranded DNA-dependent ATPase activity. Could be involved in the repair of interstrand cross-links.

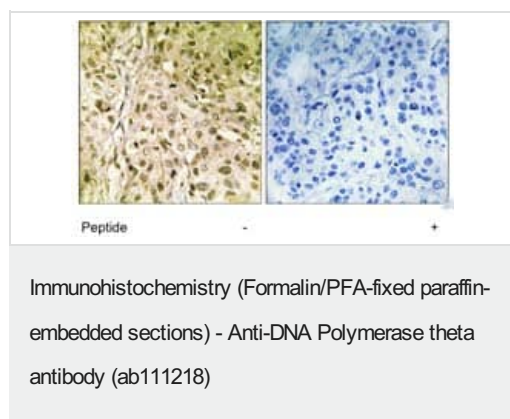
### Tissue specificity

Highly expressed in testis.

### Sequence similarities

Belongs to the DNA polymerase type-A family.  
Contains 1 helicase ATP-binding domain.  
Contains 1 helicase C-terminal domain.

## Images



ab111218 at 1/50 dilution staining DNA Polymerase theta in paraffin-embedded Human Breast carcinoma tissue by Immunohistochemistry. The image on the right is treated with the synthesized peptide.

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

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- We provide support in Chinese, English, French, German, Japanese and Spanish

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