

Product datasheet

# Anti-RPA32/RPA2 (phospho T21) antibody - N-terminal ab229459

1 Image

Overview

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<b>Product name</b>	Anti-RPA32/RPA2 (phospho T21) antibody - N-terminal
<b>Description</b>	Rabbit polyclonal to RPA32/RPA2 (phospho T21) - N-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow, Pig, Zebrafish, Rhesus monkey 
<b>Immunogen</b>	Synthetic peptide within Human RPA32/RPA2 (N terminal) (phospho T21). The exact sequence is proprietary. Conjugated to a protein carrier. Database link: <a href="#">P15927</a>
<b>Positive control</b>	WB: HEK-293T whole cell extract.

Properties

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<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. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.025% Proclin Constituents: PBS, 1% BSA, 20% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

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Our [Abpromise guarantee](#) covers the use of **ab229459** 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
WB		1/500 - 1/3000. Predicted molecular weight: 29 kDa.

## Target

### Function

Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions.

Functions as component of the alternative replication protein A complex (aRPA). aRPA binds single-stranded DNA and probably plays a role in DNA repair; it does not support chromosomal DNA replication and cell cycle progression through S-phase. In vitro, aRPA cannot promote efficient priming by DNA polymerase alpha but supports DNA polymerase delta synthesis in the presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange.

### Post-translational modifications

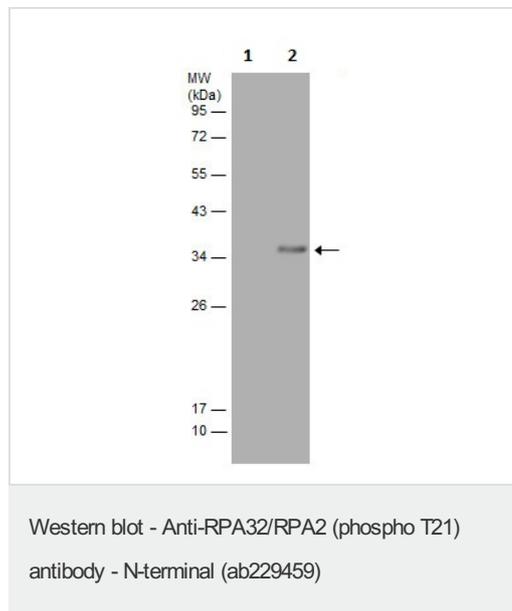
Phosphorylated in a cell-cycle-dependent manner (from the S phase until mitosis).

Phosphorylated by ATR upon DNA damage, which promotes its translocation to nuclear foci. Can be phosphorylated in vitro by PRKDC/DNA-PK in the presence of Ku and DNA, and by CDK1.

### Cellular localization

Nucleus. Nucleus > PML body. Also present in PML nuclear bodies. Redistributes to discrete nuclear foci upon DNA damage.

## Images



**All lanes :** Anti-RPA32/RPA2 (phospho T21) antibody - N-terminal (ab229459) at 1/1000 dilution

**Lane 1 :** HEK293T (human epithelial cell line from embryonic kidney) whole cell extract

**Lane 2 :** HEK293T (human epithelial cell line from embryonic kidney) whole cell extract treated with 100  $\mu$ M Etoposide for 2 hours

Lysates/proteins at 30  $\mu$ g per lane.

**Predicted band size:** 29 kDa

12% SDS-PAGE gel.

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

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