

# Phospho-RPA2-Ser33 Rabbit mAb

Catalog No.: AP1479   **Recombinant**

## Basic Information

### Observed MW

32 kDa

### Calculated MW

29 kDa

### Category

Primary antibody

### Applications

WB, IF-P, IHC-P, ELISA

### Cross-Reactivity

Mouse, Rat

### Clone/No number

ARC66738

## Background

This gene encodes a subunit of the heterotrimeric Replication Protein A (RPA) complex, which binds to single-stranded DNA (ssDNA), forming a nucleoprotein complex that plays an important role in DNA metabolism, being involved in DNA replication, repair, recombination, telomere maintenance, and co-ordinating the cellular response to DNA damage through activation of the ataxia telangiectasia and Rad3-related protein (ATR) kinase. The RPA complex protects single-stranded DNA from nucleases, prevents formation of secondary structures that would interfere with repair, and co-ordinates the recruitment and departure of different genome maintenance factors. The heterotrimeric complex has two different modes of ssDNA binding, a low-affinity and high-affinity mode, determined by which oligonucleotide/oligosaccharide-binding (OB) domains of the complex are utilized, and differing in the length of DNA bound. This subunit contains a single OB domain that participates in high-affinity DNA binding and also contains a winged helix domain at its carboxy terminus, which interacts with many genome maintenance protein. Post-translational modifications of the RPA complex also plays a role in co-ordinating different damage response pathways.

## Recommended Dilutions

**WB**                    1:1000 - 1:4000

**IF-P**                    1:50-1:200

**IHC-P**                    1:500 - 1:1000

**ELISA**                    Recommended starting concentration is 1 µg/mL.  
                          Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

6118

### Swiss Prot

P15927

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

REPA2; RPA32; RP-A p32; RP-A p34

## Contact

	400-999-6126
	<a href="mailto:cn.market@abclonal.com.cn">cn.market@abclonal.com.cn</a>
	<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

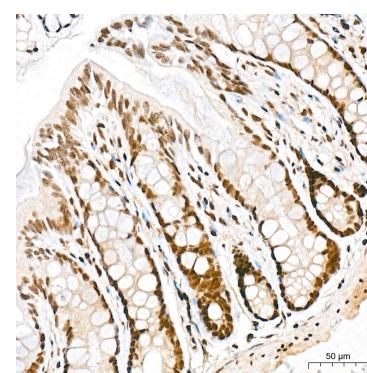
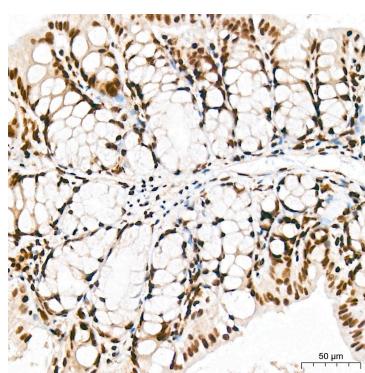
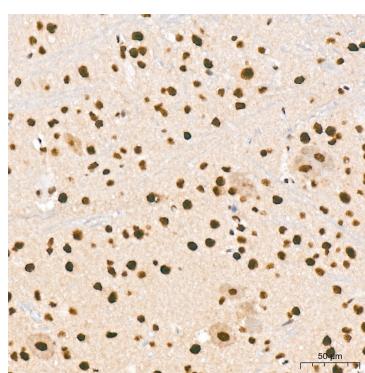
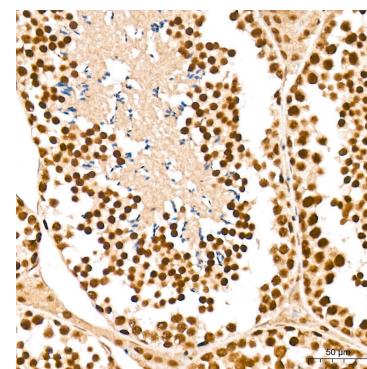
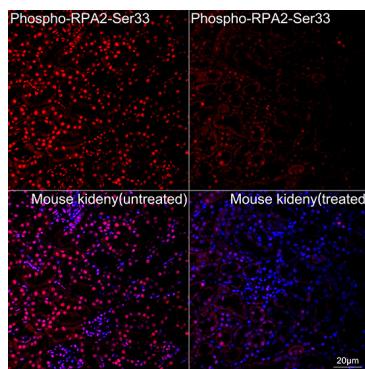
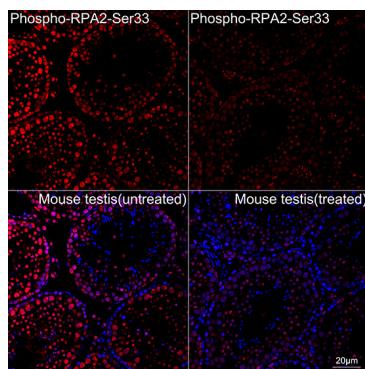
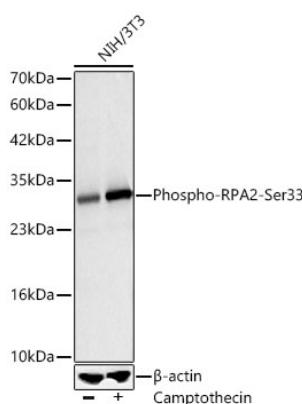
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

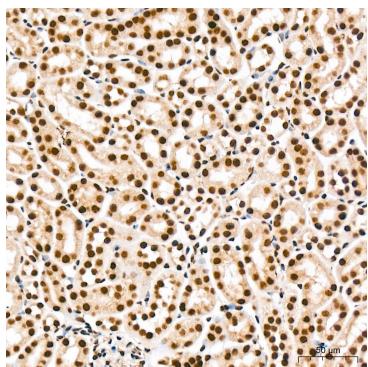
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



## Validation Data

---



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Phospho-RPA2-Ser33 Rabbit mAb (AP1479) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.