

Phospho-RPA2-Ser33 Rabbit mAb

Catalog No.: AP1479 **Recombinant**

Basic Information

Observed MW

32kDa

Calculated MW

29kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P

Cross-Reactivity

Mouse, Rat

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

Immunogen Information

Gene ID

6118

Swiss Prot

P15927

Immunogen

A synthetic phosphorylated peptide around Ser33 of human RPA2 (NP_002937.1).

Synonyms

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

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

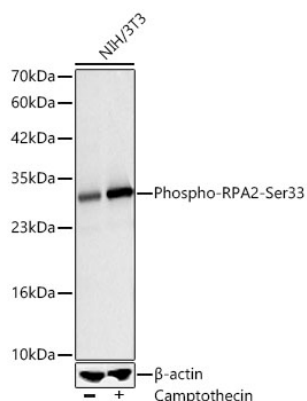
Affinity purification

Storage

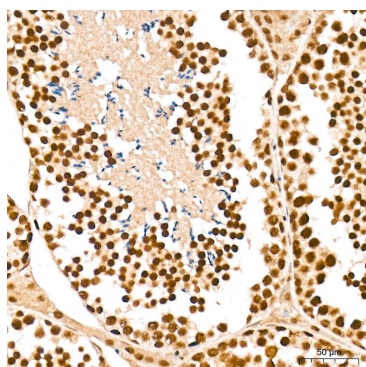
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

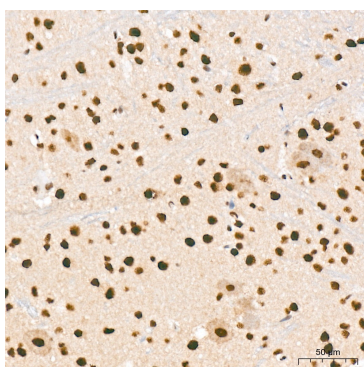
Validation Data



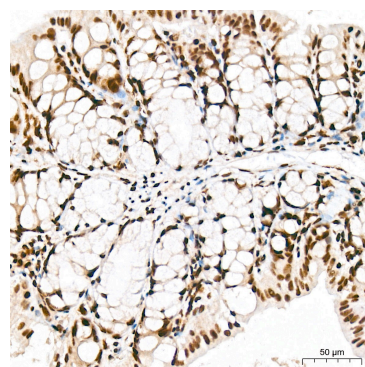
Western blot analysis of lysates from NIH/3T3 cells using Phospho-RPA2-Ser33 Rabbit mAb (AP1479) at 1:1000 dilution. NIH/3T3 cells were treated by Camptothecin (1 μ M) at 37°C for 1 hour. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



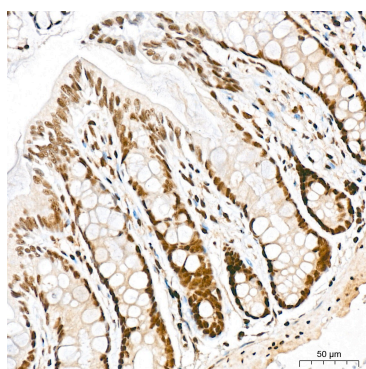
Immunohistochemistry analysis of Phospho-RPA2-Ser33 in paraffin-embedded Mouse testis tissue using Phospho-RPA2-Ser33 Rabbit mAb (AP1479) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



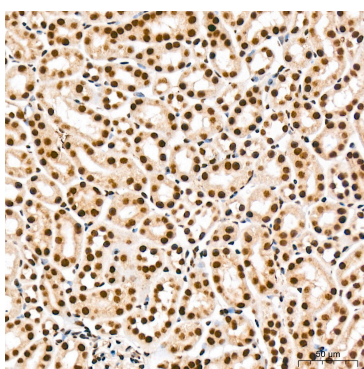
Immunohistochemistry analysis of Phospho-RPA2-Ser33 in paraffin-embedded Mouse brain tissue using Phospho-RPA2-Ser33 Rabbit mAb (AP1479) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-RPA2-Ser33 in paraffin-embedded Mouse colon 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.



Immunohistochemistry analysis of Phospho-RPA2-Ser33 in paraffin-embedded Rat colon 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.



Immunohistochemistry analysis of Phospho-RPA2-Ser33 in 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.