

**RPA2 Antibody (N-term) )**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9115a****Specification**

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**RPA2 Antibody (N-term) ) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P15927</a>
Other Accession	<a href="#">Q63528</a> , <a href="#">Q62193</a>
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	29247
Antigen Region	66-96

**RPA2 Antibody (N-term) ) - Additional Information****Gene ID** 6118**Other Names**

Replication protein A 32 kDa subunit, RP-A p32, Replication factor A protein 2, RF-A protein 2, Replication protein A 34 kDa subunit, RP-A p34, RPA2, REPA2, RPA32, RPA34

**Target/Specificity**

This RPA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-96 amino acids from the N-terminal region of human RPA2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RPA2 Antibody (N-term) ) is for research use only and not for use in diagnostic or therapeutic procedures.

**RPA2 Antibody (N-term) ) - Protein Information****Name** RPA2

### Synonyms REPA2, RPA32, RPA34

**Function** As part of the heterotrimeric replication protein A complex (RPA/RP-A), binds and stabilizes single-stranded DNA intermediates, that form during DNA replication or upon DNA stress. It prevents their reannealing and in parallel, recruits and activates different proteins and complexes involved in DNA metabolism. Thereby, it plays an essential role both in DNA replication and the cellular response to DNA damage. In the cellular response to DNA damage, the RPA complex controls DNA repair and DNA damage checkpoint activation. Through recruitment of ATRIP activates the ATR kinase a master regulator of the DNA damage response. It is required for the recruitment of the DNA double-strand break repair factors RAD51 and RAD52 to chromatin in response to DNA damage. Also recruits to sites of DNA damage proteins like XPA and XPG that are involved in nucleotide excision repair (NER) and is required for this mechanism of DNA repair. Also plays a role in base excision repair (BER) probably through interaction with UNG. Also recruits SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance.

### Cellular Location

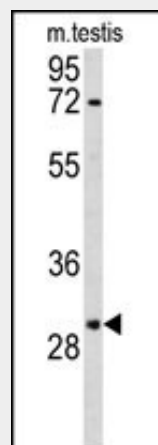
Nucleus, Nucleus, PML body. Note=Redistributes to discrete nuclear foci upon DNA damage in an ATR-dependent manner

### RPA2 Antibody (N-term) ) - Protocols

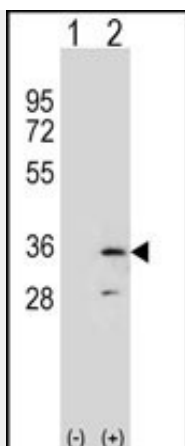
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### RPA2 Antibody (N-term) ) - Images



Western blot analysis of RPA2 Antibody (N-term) (Cat. #AP9115a) in mouse testis tissue lysates (35ug/lane). RPA2 (arrow) was detected using the purified Pab.



Western blot analysis of RPA2 (arrow) using rabbit polyclonal RPA2 Antibody (N-term) (Cat. #AP9115a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the RPA2 gene.

#### **RPA2 Antibody (N-term) ) - Background**

RPA2 is required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions.

#### **RPA2 Antibody (N-term) ) - References**

Umbricht,C.B., et.al., J. Biol. Chem. 268 (9), 6131-6138 (1993)  
Oakley,G.G., et.al., Biochemistry 48 (31), 7473-7481 (2009)