

For Research Use Only

# RPA2 Polyclonal antibody

Catalog Number: 10412-1-AP **9 Publications**



## Basic Information

<b>Catalog Number:</b> 10412-1-AP	<b>GenBank Accession Number:</b> BC001630	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 293 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6118	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> replication protein A2, 32kDa	<b>IHC 1:20-1:200</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 29 kDa	
<b>Immunogen Catalog Number:</b> AG0690	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> ChIP, IF, IHC, IP, WB	<b>WB :</b> HEK-293 cells, mouse brain tissue, HeLa cells, SH-SY5Y cells
<b>Species Specificity:</b> human, mouse, rat	<b>IP :</b> mouse kidney tissue,
<b>Cited Species:</b> human, mouse	<b>IHC :</b> human gliomas tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF :</b> HeLa cells,

## Background Information

RPA2, a subunit of the heterotrimeric replication protein A (RPA) complex, is overexpressed in various cancers. RPA2 is a major target for upstream kinases, including CDKs and the three PIKKs (ATR, ataxia-telangiectasia mutated [ATM], and DNA-PK). RPA2 comprises multiple critical Ser/Tr residues that are phosphorylated in sequential order in response to genotoxic stress.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiao Zhao	35597237	Mol Cell	WB
Yushan Li	35341968	J Genet Genomics	IF
Weizhe Li	30854428	Sci Adv	IF

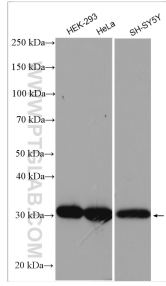
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

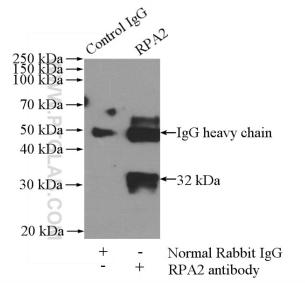
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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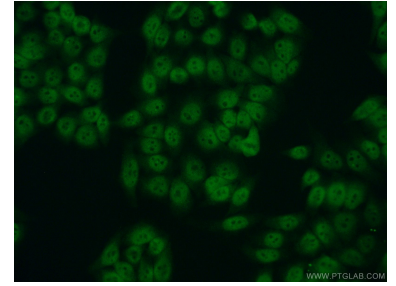
## Selected Validation Data



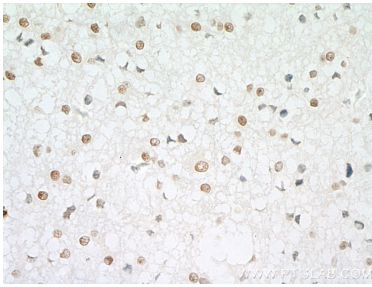
Various lysates were subjected to SDS PAGE followed by western blot with 10412-1-Ap (RPA2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



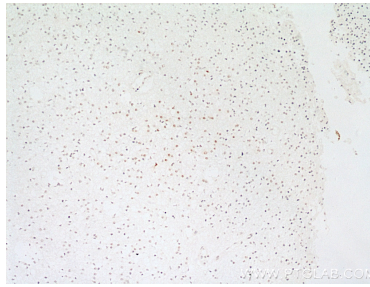
IP Result of anti-RPA2 (IP:10412-1-Ap, 4ug; Detection:10412-1-Ap 1:1000) with mouse kidney tissue lysate 4000ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 10412-1-Ap (RPA2 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10412-1-Ap (RPA2 antibody) at dilution of 1:100 (under 40x lens)..



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10412-1-Ap (RPA2 antibody) at dilution of 1:100 (under 10x lens)..