

# Product Datasheet

## RPA2 Antibody (OTI9A1) NBP2-02182

Unit Size: 0.1 ml

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

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**NBP2-02182**

RPA2 Antibody (OTI9A1)

Product Information	
Unit Size	0.1 ml
Concentration	0.7 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OTI9A1
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	29.1 kDa

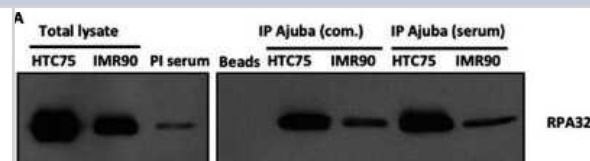
Product Description	
Description	Novus Biologicals Mouse RPA2 Antibody (OTI9A1) (NBP2-02182) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-RPA2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6118
Gene Symbol	RPA2
Species	Human, Mouse, Rat, Monkey, Primate
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Full length human recombinant protein of human RPA2 (NP_002937) produced in HEK293T cell.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-2000, Flow Cytometry 1:100, Immunohistochemistry 1:50, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 2ug/500ul, Immunohistochemistry-Paraffin 1:50

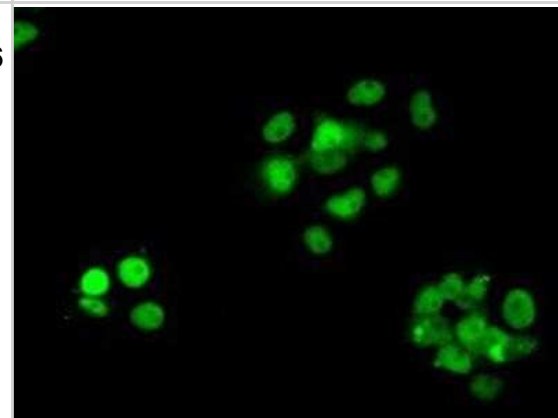


## Images

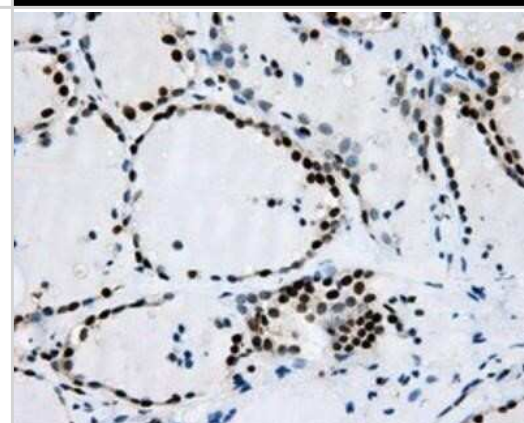
Western Blot: RPA2 Antibody (OTI9A1) [NBP2-02182] - Ajuba associates with RPA in HTC75 and IMR90 cells. IP-Western probed with a total anti-RPA32 antibody after immunoprecipitation with a commercial anti-Ajuba antibody (com.) or anti-peptide serum from IMR90 or HTC75 extracts as indicated. Left panel: total lysates (input) for each cell line, and the pre-immune serum (PI) used as a control for the immunoprecipitation. Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/article/10.3389/fgene.2013.00095/abstract>), licensed under a CC-BY license.



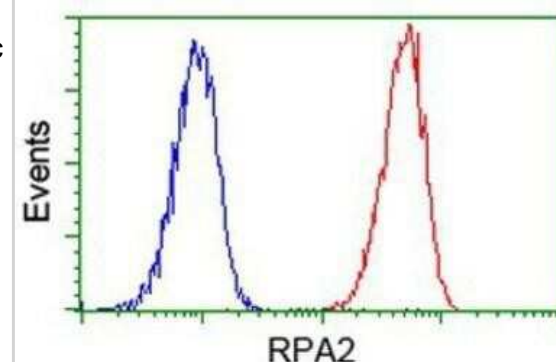
Immunocytochemistry/Immunofluorescence: RPA2 Antibody (OTI9A1) [NBP2-02182] - Staining of COS7 cells transiently transfected by pCMV6-ENTRY RPA2.



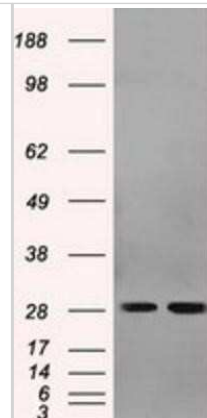
Immunohistochemistry-Paraffin: RPA2 Antibody (OTI9A1) [NBP2-02182] - Staining of paraffin-embedded Human thyroid tissue using anti-RPA2 mouse monoclonal antibody.



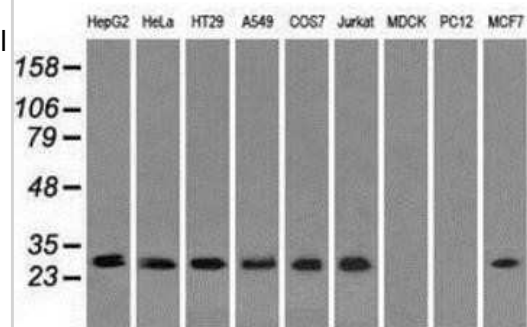
Flow Cytometry: RPA2 Antibody (OTI9A1) [NBP2-02182] - Analysis of Jurkat cells, using anti-RPA2 antibody, (Red), compared to a nonspecific negative control antibody (Blue).



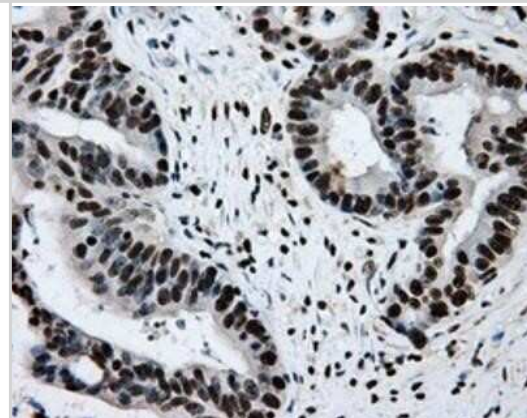
Western Blot: RPA2 Antibody (OTI9A1) [NBP2-02182] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY RPA2 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RPA2.



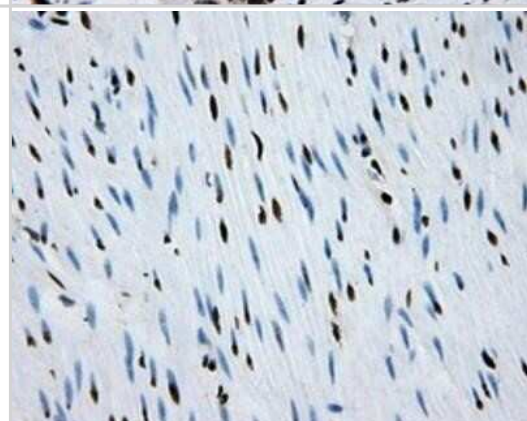
Western Blot: RPA2 Antibody (OTI9A1) [NBP2-02182] - Analysis of extracts (35ug) from 9 different cell lines by using anti-RPA2 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



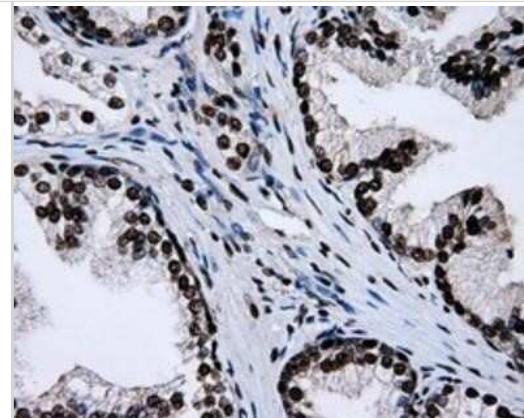
Immunohistochemistry-Paraffin: RPA2 Antibody (OTI9A1) [NBP2-02182] - Staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-RPA2 mouse monoclonal antibody.



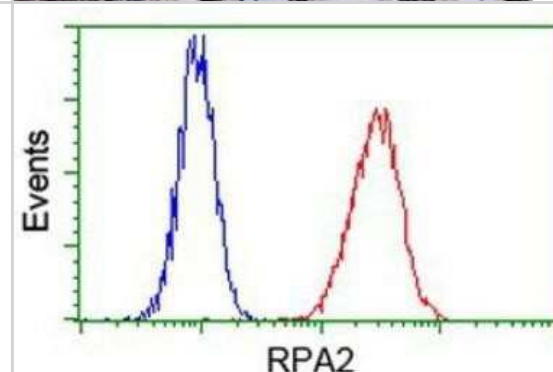
Immunohistochemistry-Paraffin: RPA2 Antibody (OTI9A1) [NBP2-02182] - Staining of paraffin-embedded Human colon tissue using anti-RPA2 mouse monoclonal antibody.



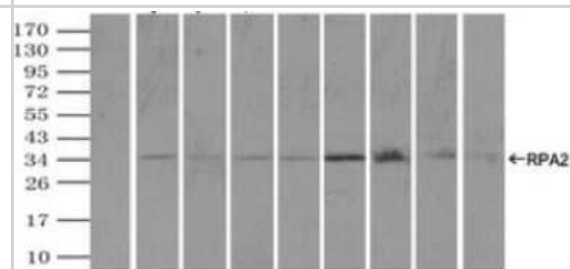
Immunohistochemistry-Paraffin: RPA2 Antibody (OTI9A1) [NBP2-02182] - Staining of paraffin-embedded Human prostate tissue using anti-RPA2 mouse monoclonal antibody.



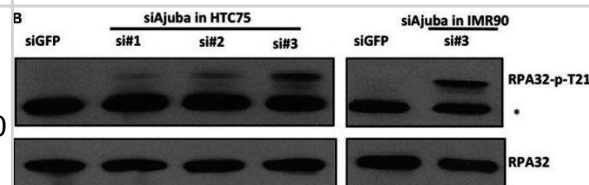
Flow Cytometry: RPA2 Antibody (OTI9A1) [NBP2-02182] - Analysis of HeLa cells, using anti-RPA2 antibody, (Red), compared to a nonspecific negative control antibody (Blue).



Immunoprecipitation: RPA2 Antibody (OTI9A1) [NBP2-02182] - (Negative control: IP without adding anti-RPA2 antibody.). For each experiment, 500ul of DDK tagged RPA2 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-RPA2 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immuno-precipitated products were analyzed with rabbit anti-DDK polyclonal antibody.



Western Blot: RPA2 Antibody (OTI9A1) [NBP2-02182] - Ajuba associates with RPA in HTC75 & IMR90 cells. (A) IP-Western probed with a total anti-RPA32 antibody after immunoprecipitation with a commercial anti-Ajuba antibody (com.) or anti-peptide serum from IMR90 or HTC75 extracts as indicated. Left panel: total lysates (input) for each cell line, & the pre-immune serum (PI) used as a control for the immunoprecipitation. (B) Western for RPA32-p-Thr21 in both HTC75 & IMR90Ajuba-depleted cells. A non-specific band is marked by a \*. Total RPA32 levels are shown at the bottom. (C) Model for the role of Ajuba in repression of ATR. The “?” indicates that the interaction between Ajuba & RPA could be direct or indirect. See text for details. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/23755068>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Kalan S, Matveyenko A, Loayza D. LIM Protein Ajuba Participates in the Repression of the ATR-Mediated DNA Damage Response. *Front Genet* 2013-05-28 [PMID: 23755068] (WB, Human)



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### **Products Related to NBP2-02182**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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