

# Mouse Monoclonal Antibody to RFA2

## Order Information

Catalog#	32393	
Size/Concentration	100µl	50µl
Price(¥)	2180	1280

## Description

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.

## Specification

Aliases : RP-A p34, RPA2, REPA2, RPA32, RPA34

Entrez GeneID : 6118

Swissprot : P15927

clone : 2C5B6

WB Predicted band size : 29kDa

Host/Isotype : Mouse IgG1

Storage : Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Species Reactivity : Human

Immunogen : Purified recombinant fragment of human RFA2 expressed in E. Coli.

Formulation : Purified antibody in PBS with 0.05% sodium azide

## Application

WB	1/500 - 1/2000
IHC	1/200 - 1/1000
FCM	1/200 - 1/400

## References

- 1.Nucleic Acids Res. 2021 Apr 19;49(7):3948-3966.
- 2.Carcinogenesis. 2010 Jun;31(6):994-1002.

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## Protocol

WB - [www.promab.com/protocol/wb.html](http://www.promab.com/protocol/wb.html)






IHC - [www.promab.com/protocol/ihc.html](http://www.promab.com/protocol/ihc.html)

ICC - [www.promab.com/protocol/icc.html](http://www.promab.com/protocol/icc.html)

HCM - [www.promab.com/protocol/hcm.html](http://www.promab.com/protocol/hcm.html)

**Antigen Sequence** is available upon request.

## Products and Services

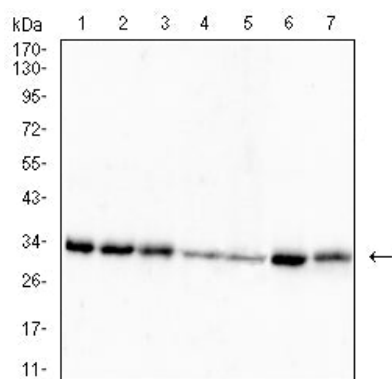
-  Mouse Monoclonal Antibody
-  Rat Monoclonal Antibody
-  Human Antibody
-  Hybridoma Sequencing
-  Polyclonal Antibody

**For Research Only**

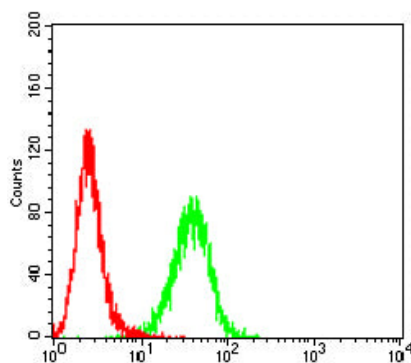
**Application Key:**WB - Western Blot | IHC - Immunohistochemistry | ICC - Immunocytochemistry | FCM - Flow Cytometry | ELISA - Enzyme-linked Immunosorbent Assay | IP - Immunoprecipitation

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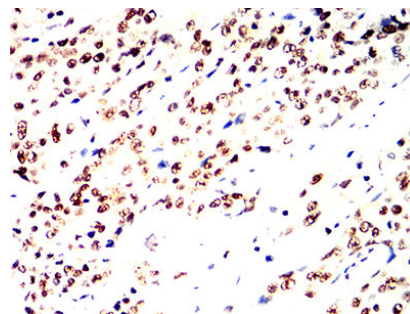
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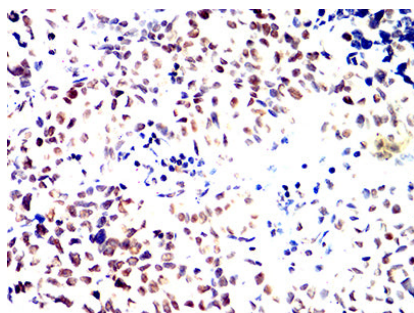
Western blot analysis using RFA2 mouse mAb against HeLa (1), MCF-7 (2), T47D (3), Ramos (4), HEK293 (5), HepG2 (6) and A431 (7) cell lysate.



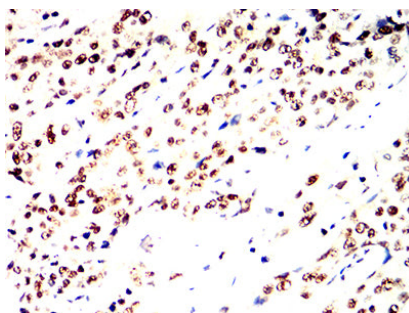
Flow cytometric analysis of HeLa cells using RFA2 mouse mAb (green) and negative control (red).



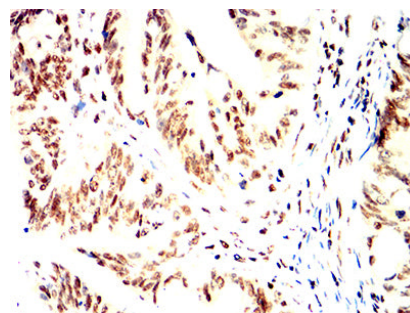
Immunohistochemical analysis of paraffin-embedded human liver tissues using RFA2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using RFA2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using RFA2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using RFA2 mouse mAb with DAB staining.

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