
Product Name: RFA2 Mouse Monoclonal Antibody**Catalog #: AMM82939**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,FC 1:200-1:400
Molecular Weight	29kDa

Antigen Information

Gene Name	RFA2
Alternative Names	RP-A p34, RPA2, REPA2, RPA32, RPA34
Gene ID	6118.0
SwissProt ID	P15927
Immunogen	Purified recombinant fragment of human RFA2 expressed in E. Coli.

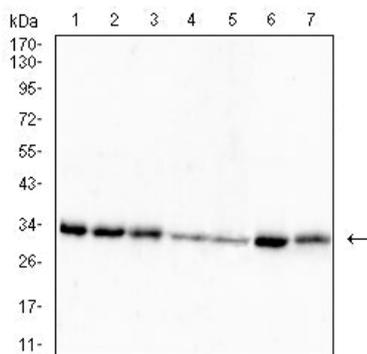
Background

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

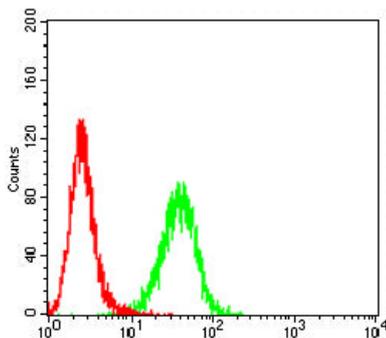
the ataxia telangiectasia and Rad3-related protein (ATR) kinase. The RPA complex protects single-stranded DNA from nucleases, prevents formation of secondary structures that would interfere with repair, and co-ordinates the recruitment and departure of different genome maintenance factors. The heterotrimeric 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.

Research Area

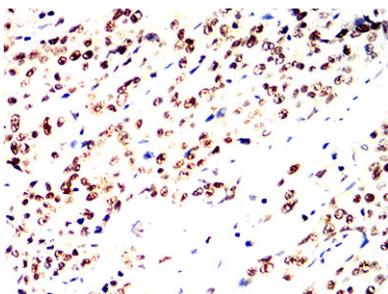
Image Data



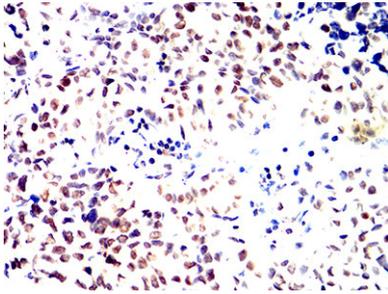
Western blot analysis using RFA2 mouse mAb against Hela (1), MCF-7 (2), T47D (3), Ramos (4), HEK293 (5), HepG2 (6) and A431 (7) cell lysate.



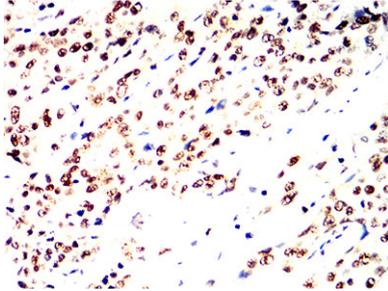
Flow cytometric analysis of Hela cells using RFA2 mouse mAb (green) and negative control (red).



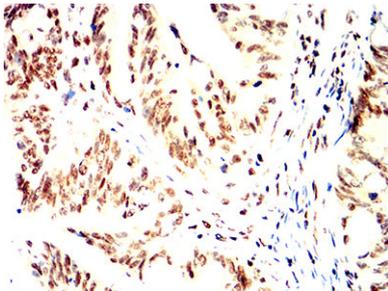
Immunohistochemical analysis of paraffin-embedded human liver tissues using RFA2 mouse mAb with DAB staining.



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.