BT LAB
Bioassay Technology Laboratory
Optimize Your Research

RFA2 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2782
Host	Mouse
Isotype	Mouse IgG1,kappa
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of human RFA2 expressed in E. Coli.
Mol wt	29kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB,IHC,FCM
Concentration	N/A
Full name	N/A
Synonyms	RP-A p34, RPA2, REPA2, RPA32, RPA34

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

Recommended Dilution

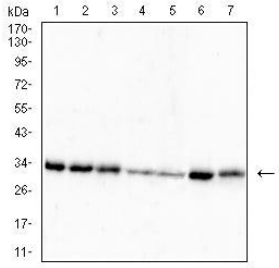
WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

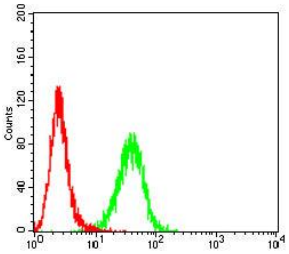
FCM: 1:200 - 1:400

Not yet tested in other applications.

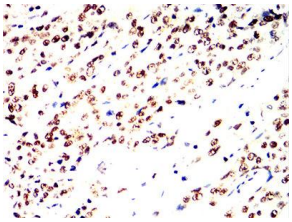
Images



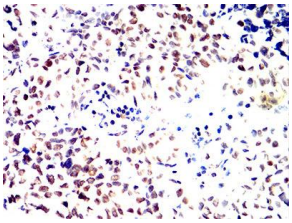
Western blot analysis using RFA2 mouse mAb against Hela (1), MCF-7 (2), T47D (3), Ramos (4), HEK293 (5), HepG2 (6) and A431 (7) cell lysate.



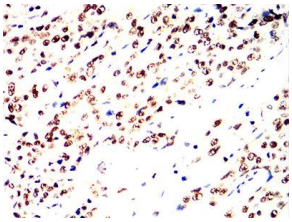
Flow cytometric analysis of Hela cells using RFA2 mouse mAb (green) and negative control (red).



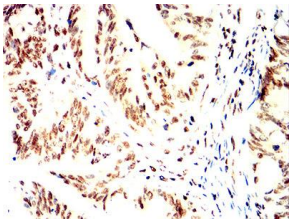
Immunohistochemical analysis of paraffin-embedded human liver tissues using RFA2 mouse mAb with DAB staining.



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



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



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

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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