



Rabbit Anti-RPA2 monoclonal antibody, clone TO17-47 (CABT-L733)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	RPA32/RPA2 (phospho T21)
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TO17-47
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IP
Molecular Weight	32 kDa
Cellular Localization	Nucleus.
Positive Control	HeLa.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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BACKGROUND

Introduction

The single-stranded-DNA-binding proteins (SSBs) are essential for DNA function in prokaryotic and eukaryotic cells, mitochondria, phages and viruses. Replication protein A (RPA), a highly conserved eukaryotic protein, is a heterotrimeric SSB. RPA plays an important role in DNA replication, recombination and repair. The binding of human RPA (hRPA) to DNA involves molecular polarity in which initial hRPA binding occurs on the 5' side of a ssDNA substrate and then extends in the 3' direction to create a stably bound hRPA. RPA is a major damage-recognition protein involved in the early stages of nucleotide excision repair. It can also play a role in telomere maintenance. The C-terminus of RPA 32 can specifically interact with the DNA repair enzyme UNG2 and repair factors XPA and Rad52, each of which functions in a different repair pathway. In addition, RPA 32 binds specifically to the SH2 domain of Stat3 in vivo, and overexpression of RPA 32 corresponds to the augmented growth factor-stimulated tyrosine phosphorylation and transcription activities of Stat3.

Keywords

60S acidic ribosomal protein
P1;AA409079;AI325195;AU020965;ik:tdsubc_2g1;M(2)21C;MGC137236;OTTHUMP00000004008;p32;p34
replication protein A2, 32kDa;REPA2;Replication factor A protein 2;Replication protein A 32 kDa
subunit;Replication protein A 32kDa subunit;Replication protein A 34 kDa subunit;Replication
protein A;Replication Protein A2 (32kDa);Replication protein A2;Replication protein A2, 32kDa;RF-
A protein 2;Rf-A2;RFA;RFA2_HUMAN;RP-A p32;RP-A p34;RP21C;RPA 2;RPA
32;RPA;Rpa2;RPA32;RPA34;RpLP1;RpP2;xx:tdsubc_2g1;zgc:109822 antibody
