

RPA p32 (phospho Ser33) rabbit pAb**Cat#: orb764314 (Manual)**

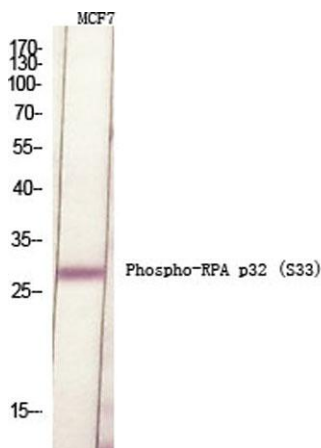
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Product Name	RPA p32 (phospho Ser33) rabbit pAb
Host species	Rabbit
Applications	WB;IHC
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	WB 1:500-2000;IHC-p 1:50-300
Immunogen	The antiserum was produced against synthesized peptide derived from human RFA2 around the phosphorylation site of Ser33. AA range:1-50
Specificity	Phospho-RPA p32 (S33) Polyclonal Antibody detects endogenous levels of RPA p32 protein only when phosphorylated at S33.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Replication protein A 32 kDa subunit
Gene Name	RPA2
Cellular localization	Nucleus . Nucleus, PML body . Redistributes to discrete nuclear foci upon DNA damage in an ATR-dependent manner. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

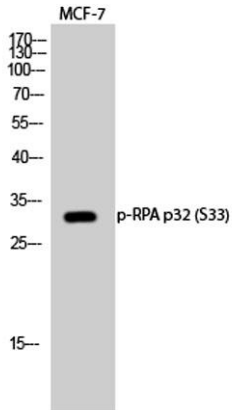
Concentration	1 mg/ml
Observed band	32kD
Human Gene ID	6118
Human Swiss-Prot Number	P15927
Alternative Names	RPA2; REPA2; RPA32; RPA34; Replication protein A 32 kDa subunit; RP-A p32; Replication factor A protein 2; RF-A protein 2; Replication protein A 34 kDa subunit; RP-A p34

Background

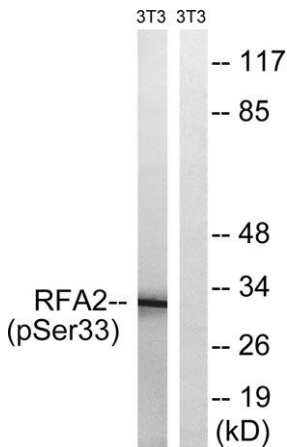
function:Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions.
PTM:Phosphorylated in a cell-cycle-dependent manner (from the S phase until mitosis). Phosphorylated by ATR upon DNA damage, which promotes its translocation to nuclear foci. Can be phosphorylated in vitro by PRKDC/DNA-PK in the presence of Ku and DNA, and by CDC2.
subcellular location:Also present in PML nuclear bodies. Redistributes to discrete nuclear foci upon DNA damage.
subunit:Heterotrimer of 70, 32 and 14 kDa chains. The DNA-binding activity may reside exclusively on the 70 kDa subunit. Binds to SERTAD3/RBT1. Interacts with TIPIN.,



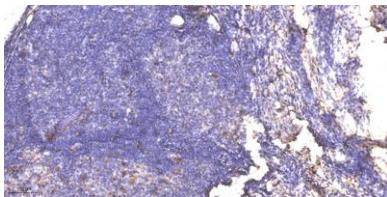
Western Blot analysis of various cells using Phospho-RPA p32 (S33) Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute™ Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Western Blot analysis of MCF-7 cells using Phospho-RPA p32 (S33) Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute™ Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventibiotech, MN, USA).



Western blot analysis of lysates from NIH/3T3 cells treated with Adriamycin 0.5ug/ml 24h, using RFA2 (Phospho-Ser33) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).