

**RPA p32 (phospho Ser33) Polyclonal Antibody**

<b>Catalog No :</b>	YP0476
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC
<b>Target :</b>	RFA2
<b>Fields :</b>	>>DNA replication;>>Nucleotide excision repair;>>Mismatch repair;>>Homologous recombination;>>Fanconi anemia pathway
<b>Gene Name :</b>	RPA2
<b>Protein Name :</b>	Replication protein A 32 kDa subunit
<b>Human Gene Id :</b>	6118
<b>Human Swiss Prot No :</b>	P15927
<b>Mouse Swiss Prot No :</b>	Q62193
<b>Rat Gene Id :</b>	59102
<b>Rat Swiss Prot No :</b>	Q63528
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human RFA2 around the phosphorylation site of Ser33. AA range:1-50
<b>Specificity :</b>	Phospho-RPA p32 (S33) Polyclonal Antibody detects endogenous levels of RPA p32 protein only when phosphorylated at S33.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 32kD

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**Cell Pathway :** DNA replication;Nucleotide excision repair;Mismatch repair;Homologous recombination;

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**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.,

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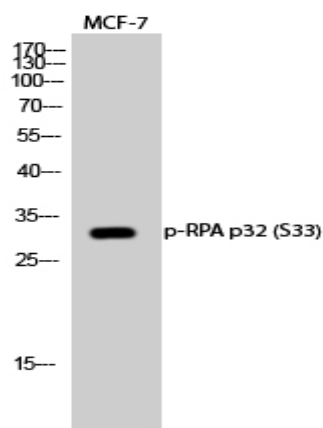
**Subcellular Location :** Nucleus . Nucleus, PML body . Redistributes to discrete nuclear foci upon DNA damage in an ATR-dependent manner. .

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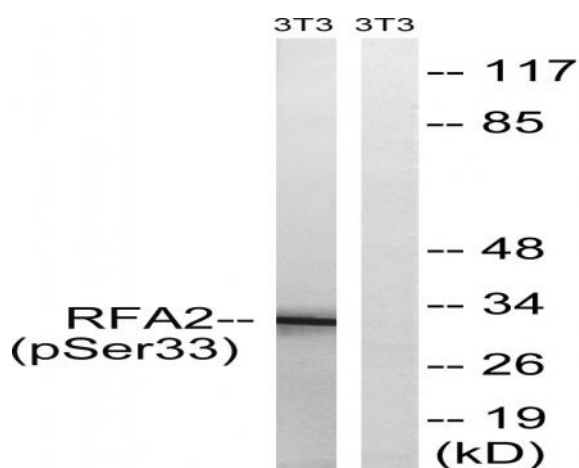
**Expression :** Kidney,Lung,Muscle,

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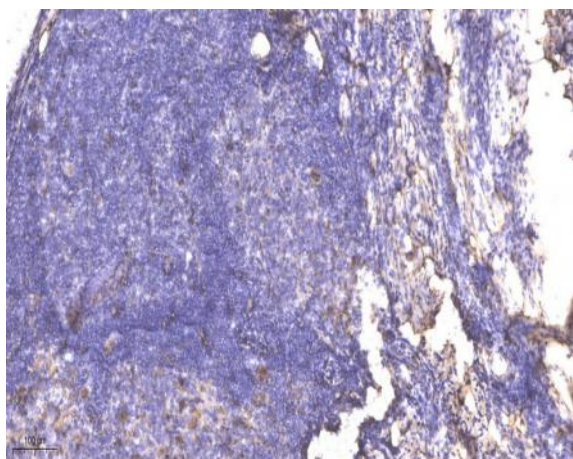
## Products Images



Western Blot analysis of MCF-7 cells using Phospho-RPA p32 (S33) Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, 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° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).