# RPA p32 (phospho Ser33) Polyclonal Antibody

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| **Catalog No** | YP-Ab-01330 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Rat |
| **Applications** | WB;IHC |
| **Gene Name** | RPA2 |
| **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. |
| **Source** | Polyclonal, Rabbit,IgG |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-2000;IHC-p 1:50-300 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | RFA2;RPA2;Replication protein A 32 kDa subunit;REPA2;RPA32;RPA34;RP-A p32;Replication factor A protein 2;RF-A protein 2;Replication protein A 34 kDa subunit;RP-A p34 |
| **Observed Band** | 32kD |
| **Calculated Molecular Weight** | 32kD |
| **Cell Pathway** | Nucleus . Nucleus, PML body . Redistributes to discrete nuclear foci upon DNA damage in an ATR-dependent manner. . |
| **Tissue Specificity** | Kidney,Lung,Muscle, |
| **Function** | 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 |

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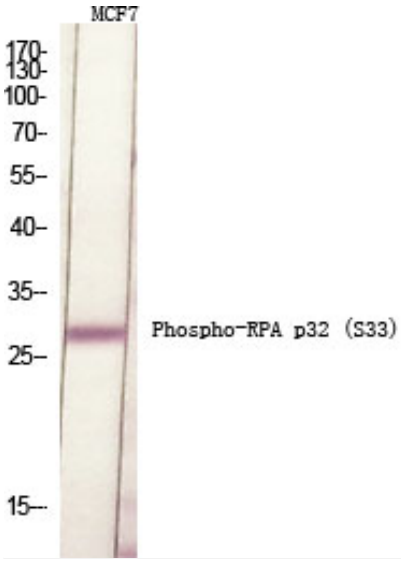
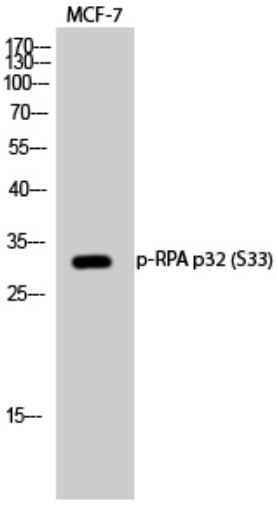
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

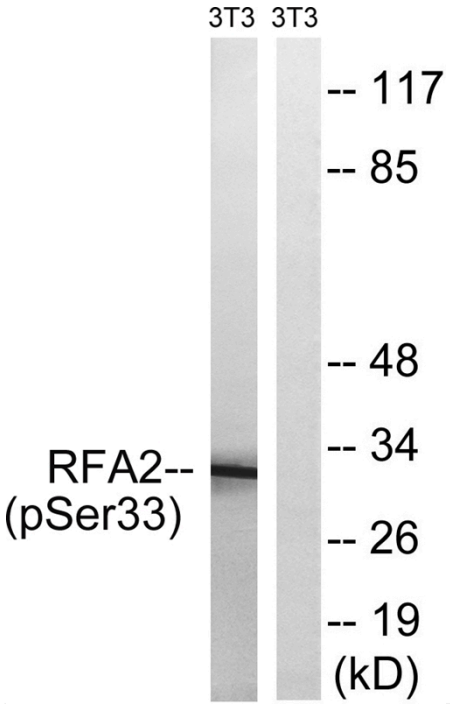
## Products Images



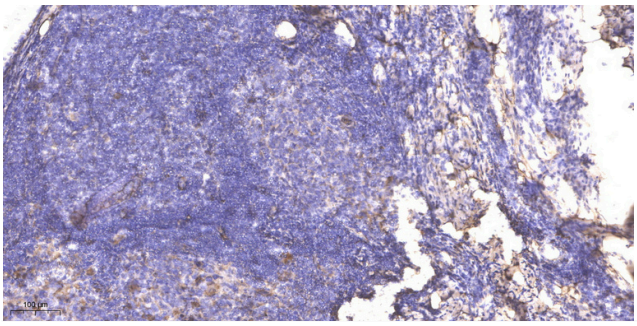

Western Blot analysis of various cells using Phospho-RPA p32 (S33) Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).




Western Blot analysis of 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).