

## RPA32/RPA2 (Phospho Thr21) Rabbit pAb

CatalogNo: YP0743 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 35kD (Observed)

#### Isotype

- IgG

### Storage

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

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:10000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human RFA2 around the phosphorylation site of Thr21. AA range:10-59

**Specificity**

Phospho-RPA32 (T21) Polyclonal Antibody detects endogenous levels of RPA32 protein only when phosphorylated at T21. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):GYtQS

**| Target Information**

**Gene name** RPA2

**Protein Name** Replication protein A 32 kDa subunit

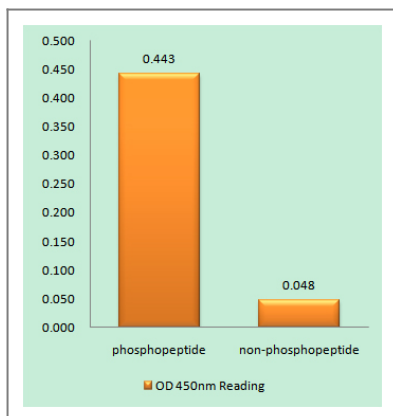
Organism	Gene ID	UniProt ID
Human	<a href="#">6118;</a>	<a href="#">P15927;</a>
Mouse		<a href="#">Q62193;</a>

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

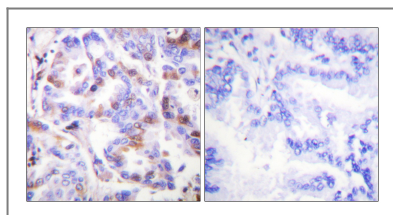
**Tissue specificity** Kidney ,Lung ,Muscle ,

**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 with TIPIN. ,

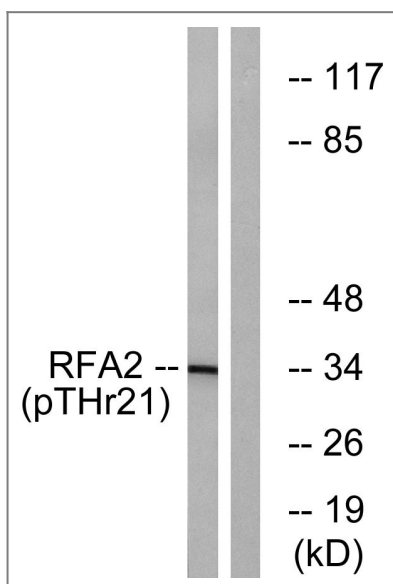
**| Validation Data**



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using RFA2 (Phospho-Thr21) Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using RFA2 (Phospho-Thr21) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with Adriamycin 0.5ug/ml 24h, using RFA2 (Phospho-Thr21) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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