Best Tools for immunology Research

RPA32 (phospho Thr21) Polyclonal Antibody

Catalog No :	YP0743
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	RFA2
Fields :	>>DNA replication;>>Nucleotide excision repair;>>Mismatch repair;>>Homologous recombination;>>Fanconi anemia pathway
Gene Name :	RPA2
Protein Name :	Replication protein A 32 kDa subunit
Human Gene Id :	6118
Human Swiss Prot No :	P15927
Mouse Swiss Prot No :	Q62193
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.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	35kD
Cell Pathway :	DNA replication;Nucleotide excision repair;Mismatch repair;Homologous recombination;
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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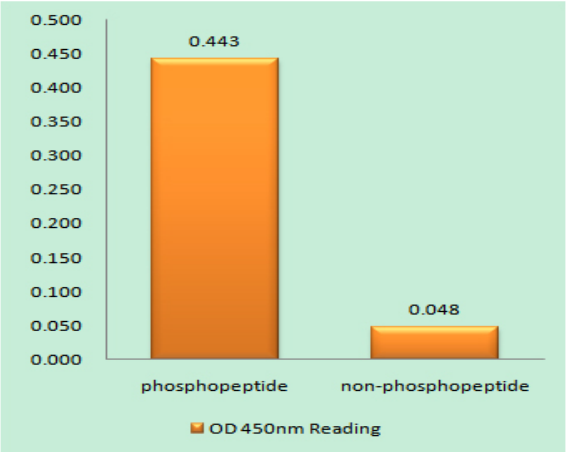
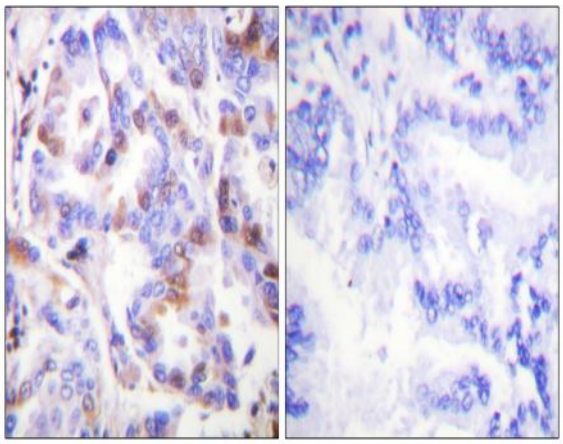
Subcellular Location :	Nucleus . Nucleus, PML body . Redistributes to discrete nuclear foci upon DNA damage in an ATR-dependent manner. .
Expression :	Kidney,Lung,Muscle,

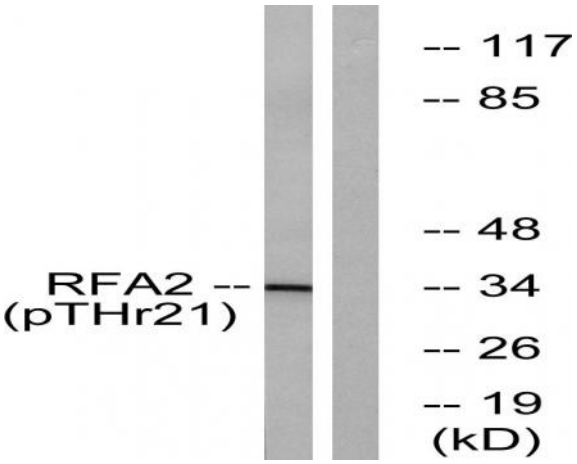
Products Images



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.