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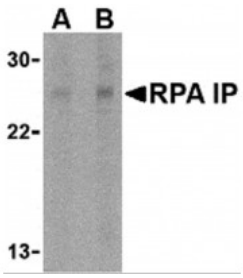
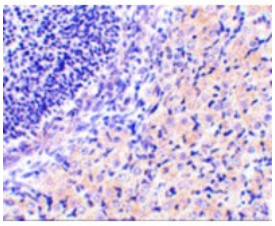
RPA Interacting Protein Antibody

CATALOG NUMBER: 4013



Western blot analysis of RPA Interacting Protein in Jurkat cell lysate with RPA Interacting Protein antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of RPA Interacting Protein in mouse stomach tissue with RPA Interacting Protein antibody at 2.5 ug/mL.

Specifications

SPECIES REACTIVITY:	Human, Mouse, Rat
TESTED APPLICATIONS:	ELISA, IHC-P, WB
APPLICATIONS:	RPA Interacting Protein antibody can be used for detection of RPA Interacting Protein by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1205 - Jurkat Cell Lysate
	2) Cat. No. 1415 - Mouse Stomach Tissue Lysate
IMMUNOGEN:	RPA IP antibody was raised against a 17 amino acid synthetic peptide from near the carboxy terminus of human RPA IP. The immunogen is located within the last 50 amino acids of RPA Interacting Protein.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	RPA Interacting Protein Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	RPA Interacting Protein Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	RPA Interacting Protein antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	RPA Interacting Protein Antibody: RIP, HRIP, RIP, RPA-interacting protein, hRIP
ACCESSION NO.:	NP_001028174
PROTEIN GI NO.:	74136541
OFFICIAL SYMBOL:	RPAIN
GENE ID:	84268

Background

BACKGROUND:	RPA Interacting Protein Antibody: Replication protein A (RPA) is a single-stranded-DNA binding protein involved in numerous eukaryotic DNA processes including replication, repair and recombination. RPA interacting protein (RPA IP) has been identified as an adapter protein that is involved in RPA nuclear import instead of the prototypical importin proteins that normally mediate nuclear import. Multiple isoforms of RPA IP are known to exist, with the longest isoform localized to the cytoplasm. Isoform 2 is sumoylated and is located in the PML nuclear body within the nucleus. It has been suggested that this isoform mediates the localization of the RPA complex into the PML nuclear body, thereby participating in RPA function in DNA metabolism.
REFERENCES:	1) Zou Y, Liu Y, Wu X, et al. Functions of human replication protein A (RPA): from DNA replication to DNA damage and stress responses. J. Cell Physiol. 2006; 208:267-73.
	2) Jullien D, Gorlich D, Laemmli UK, et al. Nuclear import of RPA in Xenopus egg extracts requires a novel protein XRIPalpha but not importin α. EMBO J. 1999; 18:4348-58.
	3) Park J, Seo T, Kim H, et al. Sumoylation of the novel protein hRIPbeta is involved in replication protein A deposition in PML nuclear bodies. Mol. Cell Biol. 2005; 25:8202-14. (06-01D)

FOR RESEARCH USE ONLY

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