

RPA Interacting Protein Antibody

Catalog # ASC10488

Product Information

Application	WB, E, IHC-P
Primary Accession	Q86UA6
Other Accession	NP_001028174 , 74136541
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	24770
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	RPA Interacting Protein antibody can be used for detection of RPA Interacting Protein by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL.

Additional Information

Gene ID	84268
Other Names	RPA Interacting Protein Antibody: RIP, HRIP, RIP, RPA-interacting protein, hRIP, RPA interacting protein
Target/Specificity	RPAIN;
Reconstitution & Storage	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.
Precautions	RPA Interacting Protein Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RPAIN
Synonyms	RIP
Function	Mediates the import of RPA complex into the nucleus, possibly via some interaction with importin beta. Isoform 2 is sumoylated and mediates the localization of RPA complex into the PML body of the nucleus, thereby participating in RPA function in DNA metabolism.
Cellular Location	[Isoform 1]: Cytoplasm. Nucleus.

Tissue Location

Widely expressed. Expressed in pancreas, kidney, muscle, liver, lung, placenta, brain, heart, leukocytes, colon, intestine, ovary, testis, prostate, thymus and spleen

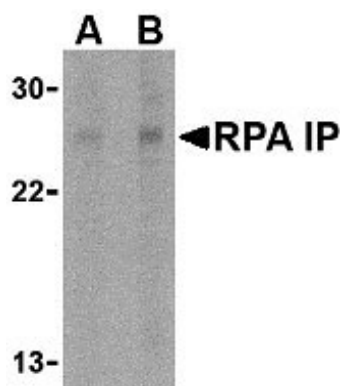
Background

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.

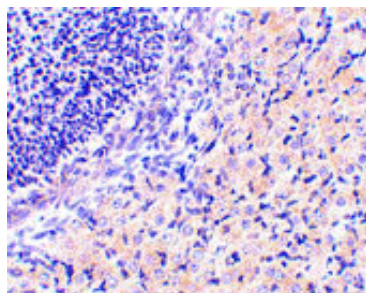
References

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.
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.
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)

Images



Western blot analysis of RPA Interacting Protein in Jurkat cell lysate with RPA Interacting Protein antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunohistochemistry of RPA Interacting Protein in mouse stomach tissue with RPA Interacting Protein antibody at 2.5 $\mu\text{g/mL}$.

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