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Datasheet for ABIN6241400 anti-RPA1 antibody

3 Images



### Overview

Quantity:	100 μL
Target:	RPA1
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RPA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC)
Product Details	
Immunogen:	Recombinant Protein
Target Details	
Target:	RPA1
Alternative Name:	RPA70 (RPA1 Products)
Background:	As part of the heterotrimeric replication protein A complex (RPA/RP-A), binds and stabilizes
	single-stranded DNA intermediates, that form during DNA replication or upon DNA stress. It
	prevents their reannealing and in parallel, recruits and activates different proteins and
	complexes involved in DNA metabolism. Thereby, it plays an essential role both in DNA
	replication and the cellular response to DNA damage (PubMed:< a
	href="http://www.uniprot.org/citations/9430682" target="_blank">9430682). In the cellular
	response to DNA damage, the RPA complex controls DNA repair and DNA damage checkpoint
	activation. Through recruitment of ATRIP activates the ATR kinase a master regulator of the

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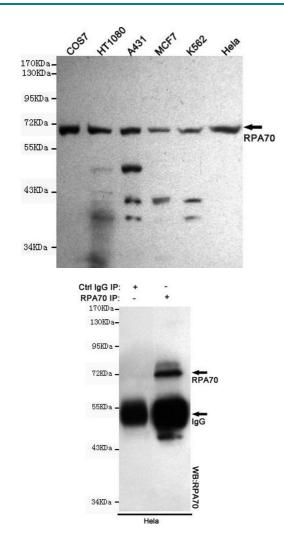
	DNA damage response (PubMed:< a href="http://www.uniprot.org/citations/24332808"
	target="_blank">24332808). It is required for the recruitment of the DNA double-strand break
	repair factors RAD51 and RAD52 to chromatin in response to DNA damage (PubMed:< a
	href="http://www.uniprot.org/citations/17765923" target="_blank">17765923). Also recruits to
	sites of DNA damage proteins like XPA and XPG that are involved in nucleotide excision repair
	and is required for this mechanism of DNA repair (PubMed:< a
	href="http://www.uniprot.org/citations/7697716" target="_blank">7697716). Plays also a role in
	base excision repair (BER) probably through interaction with UNG (PubMed:< a
	href="http://www.uniprot.org/citations/9765279" target="_blank">9765279). Through RFWD3
	may activate CHEK1 and play a role in replication checkpoint control. Also recruits
	SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May
	also play a role in telomere maintenance (PubMed:< a
	href="http://www.uniprot.org/citations/17959650" target="_blank">17959650). As part of the
	alternative replication protein A complex, aRPA, binds single-stranded DNA and probably plays
	a role in DNA repair. Compared to the RPA2- containing, canonical RPA complex, may not
	support chromosomal DNA replication and cell cycle progression through S-phase. The aRPA
	may not promote efficient priming by DNA polymerase alpha but could support DNA synthesis
	by polymerase delta in presence of PCNA and replication factor C (RFC), the dual
	incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange
	(PubMed:< a href="http://www.uniprot.org/citations/19996105" target="_blank">19996105).
UniProt:	P27694
Pathways:	Telomere Maintenance, DNA Damage Repair, Mitotic G1-G1/S Phases, DNA Replication,
	Chromatin Binding, Synthesis of DNA

## Application Details

Application Notes:	IP: 1:500. WB: 1:1000. ICC: 1:100
Restrictions:	For Research Use only
Handling	

Format:	Liquid
Storage:	4 °C,-20 °C

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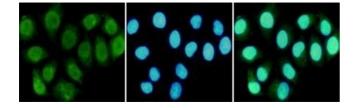


## Western Blotting

Image1.WesternblotdetectionofRinHela,A431,MCF7,COS7,HandK562celllysatesusingRmousemAb(1:1000diluted).Predictedbandsize:70KDa.Observedbandsize:70KDa.

#### Immunoprecipitation

**Image 2.** Immunoprecipitation analysis of Hela cell lysates using R mouse mAb.



#### Immunocytochemistry

**Image 3.** Immunocytochemistry staining of HeLa cells fixed in 1 % Paraformaldehyde and using R mouse mAb (dilution 1:100).

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