

Datasheet for ABIN3023166
anti-RPA2 antibody (AA 80-270)

6 Images

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Overview

Quantity:	100 µL
Target:	RPA2
Binding Specificity:	AA 80-270
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 80-270 of human RPA2 (NP_002937.1).
Sequence:	IRHAEKAPTN IVYKIDDMTA APMDVRQWVD TDDTSSENTV VPPETYVKVA GHLRSFQNKK SLVAFKIMPL EDMNEFTTHI LEVINAHMVL SKANSQPSAG RAPISNPGMS EAGNFGGNSF MPANGLTVAQ NQVLNLIKAC PRPEGLNFQD LKNQLKHMSV SSIKQAVDFL SNEGHIYSTV DDDFHKSTDA E
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	RPA2
Alternative Name:	RPA2 (RPA2 Products)
Background:	<p>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. 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 DNA damage response. It is required for the recruitment of the DNA double-strand break repair factors RAD51 and RAD52 to chromatin in response to DNA damage. 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. Plays also a role in base excision repair (BER probably through interaction with UNG. Also recruits SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance.,REPA2,RP-A p32,RP-A p34,RPA32,RPA2,RP-Ap32,RP-Ap34,Epigenetics & Nuclear Signaling,DNA Damage & Repair,RPA2</p>
Molecular Weight:	29 kDa/30 kDa/38 kDa
Gene ID:	6118
UniProt:	P15927
Pathways:	Telomere Maintenance , DNA Damage Repair , Mitotic G1-G1/S Phases , DNA Replication , Synthesis of DNA

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only

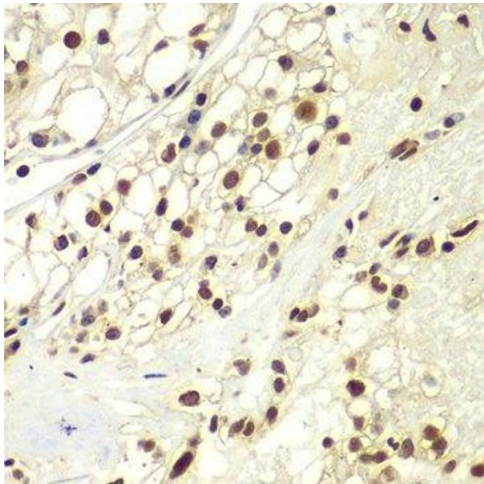
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

Handling

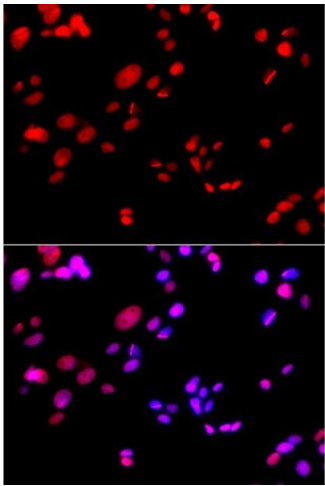
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Validation report #104228 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



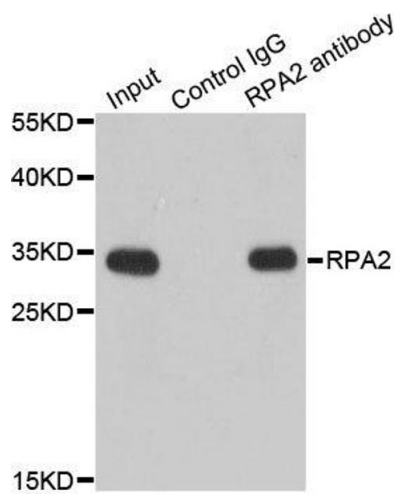
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin-embedded human kidney cancer using RPA2 Antibody.



Immunofluorescence

Image 2. Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cells using RPA2 antibody.



Immunoprecipitation

Image 3. Immunoprecipitation analysis of 200ug extracts of Jurkat cells using 1ug RPA2 antibody.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3023166.