

Rabbit anti-Human RPA1 Polyclonal Antibody | anti-RPA1 antibody

RPA1 Antibody

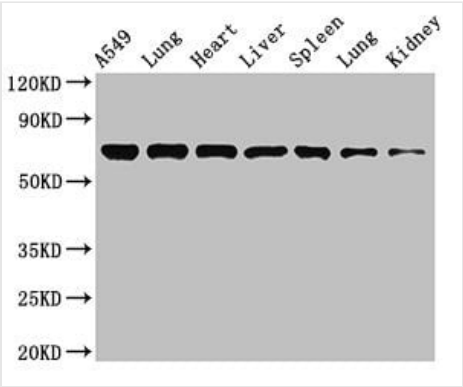
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA232652	Rabbit	Human	Immunohistochemistry, ELISA

PRODUCT SYNONYMS

RPA1; Polyclonal Antibody; RPA1 Antibody; Replication protein A 70 kDa DNA-binding subunit; RP-A p70; Replication factor A protein 1; RF-A protein 1; Single-stranded DNA-binding protein; N-terminally processed; REPA1; RPA70; anti-RPA1 antibody

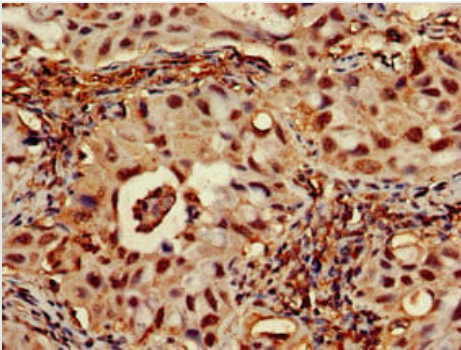
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	616
Applicable Applications for anti-RPA1 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human Replication protein A 70 kDa DNA-binding subunit protein (2-616AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-14696 / sc-25376 / sc-46503 / sc-46504
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.



WB (Western Blot)

Western BlotPositive WB detected in: A549 whole cell lysate,Rat lung tissue,Mouse heart tissue,Mouse liver tissue,Mouse spleen tissue,Mouse lung tissue,Mouse kidney tissueAll lanes: RPA1 antibody at 3.4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 69 KDaObserved band size: 69 KDa



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human lung cancer using AAA232652 at dilution of 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-RPA1 antibody

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: 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 DNA damage response (PubMed: 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: 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: 7697716). Plays also a role in base excision repair (BER) probably through interaction with UNG (PubMed: 9765279). Through RFWD3 may activate CHEK1 and play a role in replication checkpoint control. Also recruits SMARCA1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance (PubMed: 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: 19996105).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506583
NCBI GeneID	6117
NCBI Accession #	NP_002936.1
NCBI GenBank Nucleotide #	NM_002945.3
UniProt Accession #	P27694; Q59ES9; A8K0Y9
Molecular Weight	68,138 Da
NCBI Official Full Name	replication protein A 70 kDa DNA-binding subunit
NCBI Official Synonym Full Names	replication protein A1
NCBI Official Symbol	RPA1
NCBI Official Synonym Symbols	HSSB; RF-A; RP-A; REPA1; RPA70; MST075
NCBI Protein Information	replication protein A 70 kDa DNA-binding subunit

UniProt Protein Name	Replication protein A 70 kDa DNA-binding subunit
UniProt Gene Name	RPA1
UniProt Synonym Gene Names	REPA1; RPA70; RP-A p70; RF-A protein 1
UniProt Entry Name	RFA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rpa1-antibody-immunohistochemistry-elisa/232652>