

Mouse anti-Human, Mouse RPA70 Monoclonal Antibody | anti-RPA1 antibody

RPA70 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290467	Mouse	Human, Mouse	Immunoprecipitation, Immunocytochemistry, Western Blot

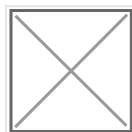
PRODUCT SYNONYMS

RPA70; Monoclonal Antibody; RPA70 Antibody; Purified Mouse Monoclonal Antibody (Mab); Dmrpa1; Drosophila Replication Protein A; DRPA; DSSB; HSSB; Human single stranded DNA binding protein; MST075; MSTP075; p70; REPA 1; REPA1; Replication factor A; Replication factor A protein 1; Replication protein A 70 kDa DNA-binding subunit; Replication protein A 70kDa DNA binding subunit; Replication protein A1 (70kD); Replication protein A1 70kDa; Replication protein A1; RF A; RF-A protein 1; RFA; RFA1_HUMAN; RP A; RP-A p70; RPA 1; RPA 70; RPA; RPA1; Single stranded binding protein 70; Single stranded DNA binding protein; Single-stranded DNA-binding protein; Ssb70.; anti-RPA1 antibody

PRODUCT SPECIFICATIONS

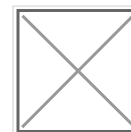
Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Form/Format	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Sequence Length	616
Applicable Applications for anti-RPA1 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), WB (Western Blot)
Antigen Source	Human
Antigen Type	Recombinant Protein
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



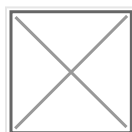
IP (Immunoprecipitation)

Immunoprecipitation analysis of HeLa cell lysates using RPA70 mouse mAb.



ICC (Immunocytochemistry)

Immunocytochemistry staining of HeLa cells fixed in 1% Paraformaldehyde and using RPA70 mouse mAb (dilution 1:100).



WB (Western Blot)

Western blot detection of RPA70 in HeLa, A431, MCF7, COS7, HT1080 and K562 cell lysates using RPA70 mouse mAb (1:1000 diluted). Predicted band size: 70KDa. Observed band size: 70KDa.

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 RFD3 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: 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).
References	Erdile L.F.,et al.J. Biol. Chem. 266:12090-12098(1991). Erdile L.F.,et al.J. Biol. Chem. 268:2268-2268(1993). Ota T.,et al.Nat. Genet. 36:40-45(2004). Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases. Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

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	68138
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/monoclonal/rpa70-antibody-immunoprecipitation-immunocytochemistry-western-blot-elisa/290467>