

Rabbit anti-Human RFA2 Polyclonal Antibody | anti-RFA2 antibody

RFA2 (Ab-21) Antibody

CATALOG # AAA301233	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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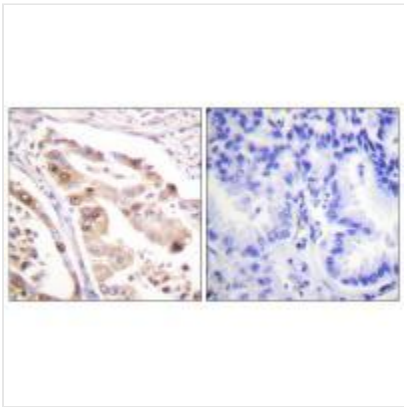
PRODUCT SYNONYMS

RFA2; Polyclonal Antibody; RFA2 (Ab-21) Antibody; REPA2; RF-A; RP-A; RPA2; RPA32; anti-RFA2 antibody

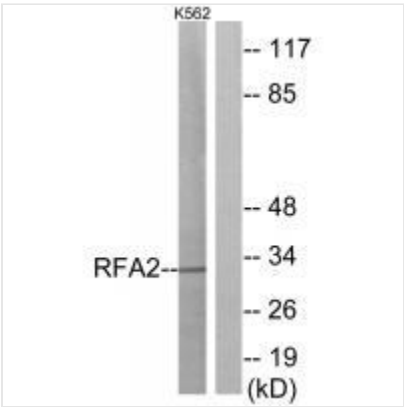
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of total RFA2 protein
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	174
Applicable Applications for anti-RFA2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human RFA2 around the phosphorylation site of threonine 21 (G-Y-T(p)-Q-S).
Target Name	RFA2
Preparation and Storage	Store at -20 degree C

IMAGES



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue using RFA2 (Ab-21) antibody.



WB (Western Blot)
Western blot analysis of extracts from K562 cells, using RFA2 (Ab-21) antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RFA2 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. In the cellular response to DNA damage the RPA complex controls DNA repair and DNA damage checkpoint activation. It is required for the recruitment of the DNA double-strand break repair factors RAD52 and RAD51 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. 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.Erdile L.F., J. Biol. Chem. 265:3177-3182(1990).Gregory S.G., Nature 441:315-321(2006).Niu H., J. Biol. Chem. 272:12634-12641(1997).Cho J.M., Nucleic Acids Res. 28:3478-3485(2000)
Product Categories/Family for anti-RFA2 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	554595586
NCBI GeneID	6118
NCBI Accession #	NP_001273005.1
NCBI GenBank Nucleotide #	NM_001286076.1
UniProt Accession #	P15927; Q52II0; Q5TEI9; Q5TEJ5
Molecular Weight	38,810 Da
NCBI Official Full Name	replication protein A 32 kDa subunit isoform 2
NCBI Official Synonym Full Names	replication protein A2, 32kDa
NCBI Official Symbol	RPA2
NCBI Official Synonym Symbols	REPA2; RPA32; RP-A p32; RP-A p34
NCBI Protein Information	replication protein A 32 kDa subunit
UniProt Protein Name	Replication protein A 32 kDa subunit
UniProt Gene Name	RPA2

UniProt Synonym Gene Names	REPA2; RPA32; RPA34; RP-A p32; RF-A protein 2; RP-A p34
UniProt Entry Name	RFA2_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/rfa2-antibody-immunohistochemistry-western-blot-elisa/301233>