Datasheet for ABIN7180080

anti-RPA2 antibody (Thr21)

2 Images

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Overview

Quantity:	100 µL
Target:	RPA2
Binding Specificity:	Thr21
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Synthesized non-phosphopeptide derived from Human RFA2 around the phosphorylation site of threonine 21 (G-Y-T(p)-Q-S).
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	RPA2
Alternative Name:	RPA2 (RPA2 Products)

Target Details

Background:	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. 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) Aliases: 60S acidic ribosomal protein P1 antibody, AA409079 antibody, AI325195 antibody, AU020965 antibody, ik:tdsubc_2g1 antibody, M(2)21C antibody, MGC137236 antibody, OTTHUMP00000004008 antibody, p32 antibody, p34 antibody, RCJMB04_6d17 replication protein A2, 32 kDa antibody, REPA2 antibody, Replication factor A protein 2 antibody, Replication protein A 32 kDa subunit antibody, Replication protein A 32 kDa subunit antibody, Replication protein A 34 kDa subunit antibody, Replication protein A antibody, Replication Protein A2 (32 kDa) antibody, Replication protein A2 antibody, Replication protein A2, 32 kDa antibody, RF-A protein 2 antibody, Rf-A2 antibody, RFA antibody, RFA2_HUMAN antibody, RP-A p32 antibody, RP-A p34 antibody, RP21C antibody, RPA 2 antibody, RPA 32 antibody, RPA antibody, Rpa2 antibody, RPA32 antibody, RPA34 antibody, RpLP1 antibody, RpP2 antibody, xx:tdsubc_2g1 antibody, zgc:109822 antibody
UniProt:	P15927
Pathways:	Telomere Maintenance, DNA Damage Repair, Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA

Application Details

Application Notes:	WB:1:500-1:3000, IHC:1:50-1:100,

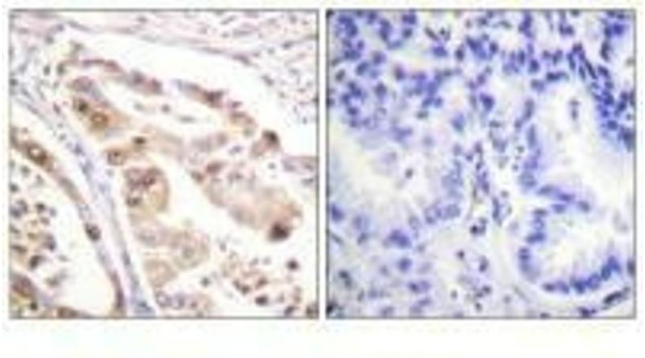
Application Details

Restrictions:	For Research Use only

Handling

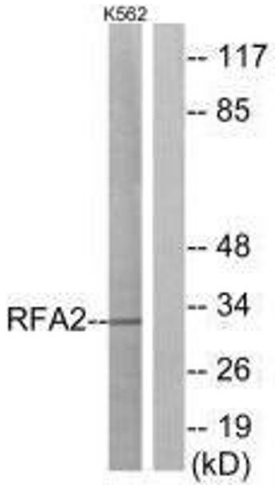
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue using RFA2 (Ab-21) antiobdy.



Western Blotting

Image 2. Western blot analysis of extracts from K562 cells, using RFA2 (Ab-21) antibody.