10320 Camino Santa Fe, Suite G
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Anti-Phospho-RPA2 (T21) Rabbit Monoclonal Antibody

Catalog # ABO13116

Specification

Anti-Phospho-RPA2 (T21) Rabbit Monoclonal Antibody - Product Information

Application	**WB, IP**
Primary Accession	P15927
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-Phospho-RPA2 (T21) Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

Anti-Phospho-RPA2 (T21) Rabbit Monoclonal Antibody - Additional Information

Gene ID 6118

Other Names
Replication protein A 32 kDa subunit, RP-A p32, Replication factor A protein 2, RF-A protein 2, Replication protein A 34 kDa subunit, RP-A p34, RPA2, REPA2, RPA32, RPA34

Calculated MW
29247 MW KDa

Application Details
WB 1:5000-1:10000
IP 1:20

Subcellular Localization
Nucleus. Nucleus, PML body. Redistributes to discrete nuclear foci upon DNA damage in an ATR-dependent manner..

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human Phospho-RPA2 (T21)

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

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Anti-Phospho-RPA2 (T21) Rabbit Monoclonal Antibody - Protein Information

Name RPA2

Synonyms REPA2, RPA32, RPA34

Function
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. Also plays 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. RPA stimulates 5'-3' helicase activity of BRIP1/FANCJ (PubMed:17596542).

Cellular Location
Nucleus. Nucleus, PML body. Note=Redistributes to discrete nuclear foci upon DNA damage in an ATR-dependent manner

Anti-Phospho-RPA2 (T21) Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Phospho-RPA2 (T21) Rabbit Monoclonal Antibody - Images

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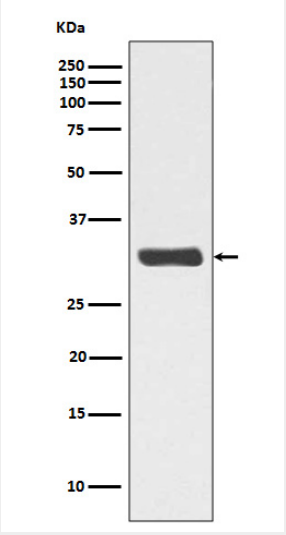

Western blot analysis of Phospho-RPA2 (T21) expression in HeLa cell lysate treated with Calyculin A.