

Product Datasheet

Phospho-RPA2 (T21) Antibody

Catalog No: CY5664

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IP



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Information

UniProt ID: P15927

All Names: REPA2; RF-A; RP-A; RPA2; RPA32; replication factor-A protein 2; replication protein A 32 kDa subunit; replication protein A2;

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 32 kDa

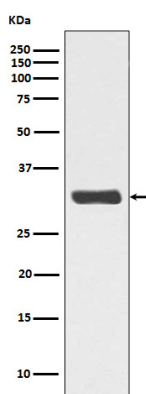
Application

WB: 1:5000~1:10000

IP: 1:20

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. 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.



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

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