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Box 1 | Basic Info

Cat. No.	ABP-PAB-01174
Animal ID	RC40104
Host	Chicken
Reactivity	Human
Format	Purified
Accession number	NM_002946
Amount	100 µg

Alternative Name(s): REPA2

RPA2, Replication protein A2 polyclonal antibody

Replication protein A2 (RPA2) is a 32 kDa protein that binds to menin and has a role in multiple endocrine neoplasia development. Phosphorylation of the RPA2 is observed after exposure of cells to ionizing radiation (IR) and other DNA-damaging agents, which implies the modified protein in the regulation of DNA replication after DNA damage or in DNA repair.

Buffers

Purified chicken polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

Partial protein comprised of amino acids 69 - 267 of the human replication protein A2 (RPA2) protein.

Application:

Tested by peptide-specific ELISA (1:1,000).

Storage:

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Sukhodolets KE, Hickman AB, Agarwal SK, Sukhodolets MV, Obungu VH, Novotny EA, Crabtree JS, Chandrasekharappa SC, Collins FS, Spiegel AM, Burns AL, Marx SJ: The 32-kilodalton subunit of replication protein A interacts with menin, the product of the MEN1 tumor suppressor gene. *Mol. Cell. Biol.* 23(2): 493-509 (2003).
2. Wang H, Guan J, Wang H, Perrault AR, Wang Y, Iliakis G: Replication protein A2 phosphorylation after DNA damage by the coordinated action of ataxia telangiectasia-mutated and DNA-dependent protein kinase. *Cancer Res.* 61(23): 8554-8563 (2001).
3. Umbricht CB, Erdile LF, Jabs EW, Kelly TJ: Cloning, overexpression, and genomic mapping of the 14-kDa subunit of human replication protein A. *J. Biol. Chem.* 268(9): 6131-6138 (1993).
4. Umbricht CB, Griffin CA, Hawkins AL, Grzeschik KH, O'Connell P, Leach R, Green ED, Kelly TJ: High-resolution genomic mapping of the three human replication protein A genes (RPA1, RPA2, and RPA3). *Genomics* 20(2): 249-257 (1994).
5. Erdile LF, Wold MS, Kelly TJ: The primary structure of the 32-kDa subunit of human replication protein A. *J. Biol. Chem.* 265(6): 3177-3182 (1990).