

RK05696

Leader in Biomolecular Solutions for Life Science



[One Step] RPA2 Antibody Kit

Catalog No.: RK05696

Basic Information

Applications

Cross-Reactivity

Human, Mouse, Rat

Observed MW

32kDa

Calculated MW

29kDa

Category

Antibody kit

Background

This gene encodes a subunit of the heterotrimeric Replication Protein A (RPA) complex, which binds to single-stranded DNA (ssDNA), forming a nucleoprotein complex that plays an important role in DNA metabolism, being involved in DNA replication, repair, recombination, telomere maintenance, and co-ordinating the cellular response to DNA damage through activation of the ataxia telangiectasia and Rad3-related protein (ATR) kinase. The RPA complex protects single-stranded DNA from nucleases, prevents formation of secondary structures that would interfere with repair, and co-ordinates the recruitment and departure of different genome maintenance factors. The heterotrimeric complex has two different modes of ssDNA binding, a low-affinity and high-affinity mode, determined by which oligonucleotide/oligosaccharide-binding (OB) domains of the complex are utilized, and differing in the length of DNA bound. This subunit contains a single OB domain that participates in high-affinity DNA binding and also contains a winged helix domain at its carboxy terminus, which interacts with many genome maintenance protein. Post-translational modifications of the RPA complex also plays a role in co-ordinating different damage response pathways.

Product Information

Source

Rabbit

Purification

Storage

Avoid repeated freeze-thaw cycles.

Contact



www.abclonal.com

Component & Recommended Dilutions

Catalog No.	Product Name	Dilutions
RK05696-1	RPA2 Rabbit pAb	29kDa
RK05696-2	HRP-conjugated Goat anti-Rabbit IgG (H+L)	32kDa

Immunogen Information

Gene ID

6118

Swiss Prot

P15927

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 80-270 of human RPA2 (NP_002937.1).

Synonyms

REPA2; RPA32; RP-A p32; RP-A p34; RPA2