

Recombinant Human RPA2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RPA2-3103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

RPA2 MS Standard C13 and N15-labeled recombinant protein (NP_002937) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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 proteins. Post-translational modifications of the RPA complex also play a role in co-ordinating different damage response pathways.

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Molecular Mass	29.2 kDa
AA Sequence	MWNSGFESYGSSSYGGAGGYTQSPGGFGSPAPSQAEEKSRARAQHIVPCTISQLL SATLVDEVFRIGNVEISQVTIVGIIRHAEKAPTNIYKIDDMTAAPMDVRQWVDTDTS SENTVVPPEYVKVAGHLRSFQNKKSLVAFKIMPLEDMNEFTTHILEVINAHMVLSKA NSQPSAGRAPISNPGMSEAGNFGGNSFMPANGLTVAQNQVLNLIKACPRPEGLNF QDLKNQLKHMSVSSIKQAVDFLSNEGHIYSTVDDDHFKSTDAESGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	RPA2 replication protein A2 [Homo sapiens (human)]
Official Symbol	RPA2
Synonyms	RPA2; replication protein A2, 32kDa; replication protein A2 (32kD); replication protein A 32 kDa subunit; RP-A p32; RP-A p34; RF-A protein 2; replication factor A protein 2; replication protein A 34 kDa subunit; REPA2; RPA32;
Gene ID	6118

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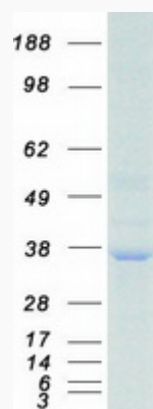
mRNA Refseq [NM_002946](#)

Protein Refseq [NP_002937](#)

MIM [179836](#)

UniProt ID [P15927](#)

SDS-PAGE



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