# Recombinant Human RPA2, His-tagged

**Cat. No.** RPA2-31146TH **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full-length Human RPA32/RPA2 with a Nterminal His tag; total protein length 293aa inclusive of tag; predicted molecular weight 31.7 kDa. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 270 amino acids |
| **Description** | Replication Protein A (RPA) is a single stranded DNA binding protein. Human RPA is a heterotrimeric protein containing subunits of 14, 32 and 70kDa. |
| **Conjugation** | HIS |
| **Molecular Weight** | 31.700kDa inclusive of tags |
| **Form** | Liquid |
| **Purity** | by SDS-PAGE |
| **Storage buffer** | Preservative: 0% NoneConstituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0 |
| **Storage** | Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Sequences of amino acids** | MGSSHHHHHHSSGLVPRGSHMGSMWNSGFESYGSSSYGGAGGYTQSPGGFGSP APSQAEKKSRARAQHIVPCTISQLLSATLVDEVFRIGNVEISQVTIVGIIRHAEKAPTNI VYKIDDMTAAPMDVRQWVDTDDTSSENTVVPPETYVKVAGHLRSFQNKKSLVAFKI MPLEDMNEFTTHILEVINAHMVLSKANSQPSAGRAPISNPGMSEAGNFGGNSFMPA NGLTVAQNQVLNLIKACPRPEGLNFQDLKNQLKHMSVSSIKQAVDFLSNEGHIYSTV DDDHFKSTDAE |

## GENE INFORMATION

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| **Gene Name** | RPA2 replication protein A2, 32kDa [ Homo sapiens ] |
| **Official Symbol** | RPA2 |
| **Synonyms** | RPA2; replication protein A2, 32kDa; replication protein A2 (32kD); replication protein A 32 kDa subunit; |
| **Gene ID** | 6118 |
| **mRNA Refseq** | NM_002946 |
| **Protein Refseq** | NP_002937 |
| **MIM** | 179836 |
| **Uniprot ID** | P15927 |
| **Chromosome Location** | 1p35 |
| **Pathway** | Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; Assembly of |

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| | the RAD51-ssDNA nucleoprotein complex, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; |
| **Function** | DNA binding; nucleic acid binding; protein N-terminus binding; protein binding; protein phosphatase binding; |

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