

Recombinant Human Replication Protein A2, 32kDa, His-tagged

Cat. No. RPA2-2852H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RPA2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW =31.7 kDa (293aa) confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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. This protein complex is highly conserved in eukaryotes and is essential in DNA replication, homologous recombination and nucleotide excision repair. The C-terminus of RPA2 can specifically interact with the DNA repair enzyme UNG2 and repair factors XPA and Rad52, each of which functions in a different repair pathway. In addition, this protein binds specifically to the SH2 domain of Stat3 in vivo, and overexpression of RPA2 corresponds to the augmented growth factor-stimulated tyrosine phosphorylation and transcription activities of Stat3.
Amino Acid Sequence	MGSSHHHHHH SSSLVPRGSH MGSMWNSGFE SYGSSSYGGA GGYTQSPGGF GSPAPSQAEK KSRARAQHIV PCTISQLLSA TLVDEVFRIG NVEISQVTIV GIIRHAEKAP TNIVYKIDDM TAAPMDVRQW VDTDDTSSSEN TVVPPETYVK VAGHLRSFQN KKSLVAFKIM PLEDMNEFTT HILEVINAHM VLSKANSQPS AGRAPISNPG MSEAGNFGGN SFMPANGLTV AQNQVLNLIK ACPRPEGLNF

 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

QDLKNQLKHM SVSSIKQAVD FLSNEGHIYS TVDDDFHKST DAE

Form

Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

Purity

> 85 % by SDS – PAGE.

Concentration

0.5 mg/ml (determined by Bradford assay).

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

RPA2 replication protein A2, 32kDa [Homo sapiens]

Synonyms

RPA2; replication protein A2, 32kDa; REPA2; RPA32; replication protein A 32 kDa subunit; RP-A p32; RP-A p34; RF-A protein 2; OTTHUMP00000004010; replication factor A protein 2; replication protein A 34 kDa subunit; RPA34; replication protein A2 (32kD)

Gene ID

6118

mRNA Refseq

NM_002946

Protein Refseq

NP_002937

MIM

179836

UniProt ID

P15927

 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

Chromosome Location	1p35
Pathway	DNA replication; Homologous recombination; Mismatch repair; Nucleotide excision repair
Function	nucleic acid binding; protein binding; single-stranded DNA binding



 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