

Product information

RPA2, 1-270 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0792

Full name: Replication protein A 32 kDa subunit

NCBI Accession No.: NP_002937

Synonyms: REPA2, RPA32, RPA32, RP-A p32, RP-A p34

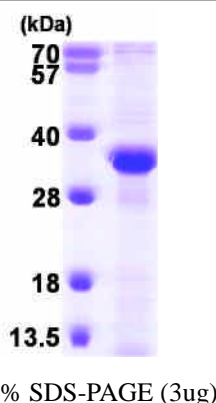
Description: Replication Protein A (RPA) is a single stranded DNA binding protein. Human RPA is a heterotrimeric protein containing subunits of 14, 32 and 70kDa. This protein complex is highly conserved in eukaryotes and is essential in DNA replication, homologous recombination and nucleotide excision 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. Recombinant human RPA2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

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

Molecular Weight: 31.7 kDa (293aa) confirmed by MALDI-TOF

Purity: > 85 % by SDS – PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSMMNSGFE SYGSSSYGGA GGYTQSPGGF GSPAPSQAEK KSRARAQHIV PCTISQLLSA TLVDEVFRIG
 NVEISQVTIV GIIRHAEKAP TNIVYKIDDM TAAPMDVRQW VDTDDTSSSEN TVVPPETYVK VAGHLRSFQN KKS LVAFKIM PLEDMNEFTT
 HILEVINAHM VLSKANSQPS AGRAPISNPG MSEAGNFGGN SFMPANGLTV AQNQVLNLIK ACPRPEGLNF QDLKNQLKHM SVSSIKQAVD
 FLSNEGHIYS TVDDDFKST DAE

General references:

Wang M., *et al.* (2000) *Biochemistry*. 39(21):6433-9.

Mer G., *et al.* (2000) *Cell*. 103(3):449-56.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.