

Recombinant human RPA2 protein

Catalog Number: ATGP0792

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-270aa

UniProt No.

P15927

NCBI Accession No.

NP_002937

Alternative Names

Replication protein A 32 kDa subunit, Replication protein A 32 kDa subunit, REPA2, RPA32, RPA32, RP-A p32, RP-A p34

PRODUCT SPECIFICATION

Molecular Weight

31.7 kDa (293aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MWNSGFE SYGSSSYGGA GGYTQSPGGF GSPAPSQA EK KSRARAQHIV
PCTISQLLSA TLVDEVFRIG NVEISQVTIV GIIRHAEKAP TNIVYKIDDM TAAPMDVRQW VDTDDTSEN TVVPPETYVK
VAGHLRSFQN KKSLVAFKIM PLEDMNEFTT HILEVINAHM VLSKANSQPS AGRAPISNPG MSEAGNFGGN SFMPANGLTV
AQNQVLNLIK ACPRPEGLNF QDLKNQLKHM SVSSIKQAVD FLSNEGHIYS TVDDDHFKST DAE

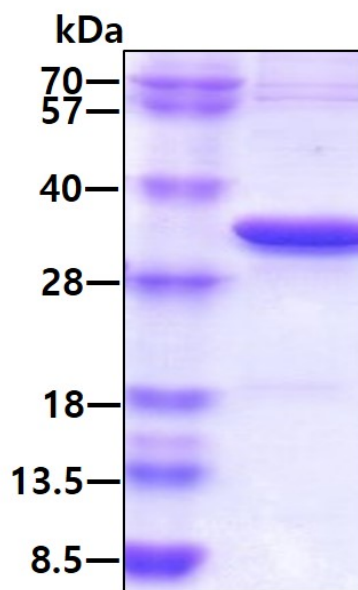
General References

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

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.