

RPA2 Human

Description: RPA2 Human Recombinant fused with a 23 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 293 amino acids (1-270 a.a.) and having a molecular mass of 31.7kDa. The RPA2 is purified by proprietary chromatographic techniques.

Catalog #: PRPS-018

For research use only.

Synonyms: Replication protein A 32 kDa subunit, RP-A p32, Replication factor A protein 2, RF-A protein 2, Replication protein A 34 kDa subunit, RP-A p34, RPA2, REPA2, RPA32, RPA34.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MGSMWNSGFE SYGSSSYGGA
GGYTQSPGGF GSPAPSQAEK KSRARAQHV PCTISQLLSA TLVDEVFRIG NVEISQVTIV
GIIRHAEKAP TNIVYKIDDM TAAPMDVRQW VDTDDTSSSEN TVVPPETYVK VAGHLRSFQN
KKSLVAFKIM PLEDMNEFTT HILEVINAHM VLSKANSQPS AGRAPISNPG MSEAGNFGGN
SFMPANGLTV AQ

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:

The RPA2 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 2mM DTT and 0.1M NaCl.

Stability:

RPA2 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Replication Protein A2 (RPA2) is a single stranded DNA binding protein. Human RPA2 is a heterotrimeric protein containing subunits of 14, 32 and 70kDa. The RPA2 protein complex is highly conserved in eukaryotes and is crucial in DNA replication, homologous recombination and nucleotide excision repair. RPA2 C-terminus specifically interacts with the DNA repair enzyme UNG2 and repair factors XPA and Rad52, each of which functions in a different repair pathway. Additionally, RPA2 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.

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