

32-4675: Recombinant Human Replication Protein A2

Alternative Name : 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.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount : 10 µg
Purification : Greater than 85.0% as determined by SDS-PAGE.
Content : The RPA2 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 10% glycerol, 2mM DTT and 0.1M NaCl.
Storage condition : 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.
Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMWNSGFE SYGSSSYGGA GGYTQSPGGF GSPAPSQAEK
KSRARAQHIV PCTISQLLSA TLVDEVFRIG NVEISQVTIV GIIRHAEKAP TNIVYKIDDM TAAPMDVRQW
VDTDDTSSSEN TVVPPETYVK VAGHLRSFQN KKSLVAFKIM PLEDMNEFTT HILEVINAHM VLSKANSQPS
AGRAPISNPG MSEAGNFGGN SFMPANGLTV AQNQVLNLK ACPRPEGLNF QDLKNQLKHM SVSSIKQAVD
FLSNEGHIYS TVDDDFHKST DAE.