9051 Mira Mesa Blvd, #910094
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RPA2 Human

Replication Protein A2 Human Recombinant
RCP1888

Product Overview

Name	RPA2 Human
Description	
Replication Protein A2 Human Recombinant	
Accession (Primary)	P15927
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.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
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	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MWNSGFE SYGSSSYGGA GGYTQSPGGF GSPAPSQAEK KSRARAQHIV PCTISQLLSA TLVDEVFRIG NVEISQVTIV GIIRHAEKAP TNIVYKIDDM TAAPMDVRQW VDTDDTSSEN	

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TVVPPETYVK VAGHLRSFQN KKSLVAFKIM PLEDMNEFTT HILEVINAHM VLSKANSQPS AGRAPISNPG MSEAGNFGGN SFMPANGLTV AQNQVLNLIK ACPRPEGLNF QDLKNQLKHM SVSSIKQAVD FLSNEGHIYS TVDDDHFKST DAE.

Precautions

RPA2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P15927)