

RPA2, 1-270aa, Human, His tag, E.coli

Cat.NO.: TP03763

3th Edition

Synonyms: Replication protein A 32 kDa subunit, 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.

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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMWNSGFESYGSSSYGGAGGYTQSPGGFGSPAPSQAEEKSRARAQHIVPC
TISQLLSATLVDEVFRIGNVEISQVTIVGIIRHAEKAPTNIVYKIDDMTAAPMDVRQWVDTDDTSSSENTVVPPEYVKV
AGHLRSFQNKKSLVAFKIMPLEDMNEFTTHILEVINAHMVLKANSQPSAGRAPISNPGMSEAGNFGGNSFMPANG
LTVAQNQVLNLIKACPRPEGLNFQDLKNQLKHMVSSIKQAVDFLSNEGHIYSTVDDDDHFKSTDAE

Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.