

Recombinant Human RPA32/RPA2 protein ab101216

1 Image

Description

Product name	Recombinant Human RPA32/RPA2 protein
Purity	> 85 % SDS-PAGE. ab101216 was purified using anion-exchange chromatography (DEAE sepharose resin) and gel-filtration chromatography (Sephacryl S-200) with 20mM Tris pH 7.5, 2mM EDTA.
Expression system	Escherichia coli
Accession	<u>P15927</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMG SMWNSGFESYGSSSY GGAGGYTQSPGGF GSPAPSQAEKKSRARAHIVPCTISQLLSATLVDEVFRIGN VEISQVTIV GIIRHAEKAPTNIYKIDDMTAAAPMDVRQWVDTDDTSSSENT VVPPEYVK VAGHLRSFQNKKSILVAFKIMPLEDMNEFTTHILEVINAHMV LSKANSQPS AGRAPISNPGMSEAGNFGGNSFMPANGLTVAQNQVLNLI KACPRPEGLNF QDLKNQLKHMVSSSIQAVDFLSNEGHIYSTVDDDFHKST DAE
Predicted molecular weight	32 kDa including tags
Amino acids	1 to 270
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab101216** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
--------------	-------------------------------

Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>pH: 8.00</p> <p>Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride</p>
------------------------------	--

General Info

Function	<p>Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions.</p> <p>Functions as component of the alternative replication protein A complex (aRPA). aRPA binds single-stranded DNA and probably plays a role in DNA repair; it does not support chromosomal DNA replication and cell cycle progression through S-phase. In vitro, aRPA cannot promote efficient priming by DNA polymerase alpha but supports DNA polymerase delta synthesis in the presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange.</p>
Post-translational modifications	<p>Phosphorylated in a cell-cycle-dependent manner (from the S phase until mitosis).</p> <p>Phosphorylated by ATR upon DNA damage, which promotes its translocation to nuclear foci. Can be phosphorylated in vitro by PRKDC/DNA-PK in the presence of Ku and DNA, and by CDK1.</p>
Cellular localization	<p>Nucleus. Nucleus > PML body. Also present in PML nuclear bodies. Redistributes to discrete nuclear foci upon DNA damage.</p>

Images



ab101216 at 3 µg analysed by 15% SDS PAGE.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors