

Datasheet for ABIN7564755
RPA1 Protein (AA 1-623) (His tag)



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Overview

Quantity:	1 mg
Target:	RPA1
Protein Characteristics:	AA 1-623
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Rpa1 Protein expressed in mammalian cells.
Sequence:	<p>MVGHLSEGAIEVMIQQENTS IKPILQVINI RPISTGNRSP RYRLLMSDGL NTLSSFMLAT</p> <p>QLNTLVEGGQ LASNCVCQVH KFIVNTLKDG RKVVVLM DLE VMKSAEDVGL KIGNPVPYNE</p> <p>GYGQQQQQQQ QQQQAVPSP ASAATPPASK PQQPQNGSLGM GSTAAKAYGA SKPFGKPAGT</p> <p>GLLQPSGGTQ SKVVPISLT PYQSKWTICA RVTNKSQIRT WSNSRGEGKL FSLELVDESG</p> <p>EIRATAFNEQ VDKFFPLIEV NKVYYFSKGA LKIANKQFSA VKNDYEMTFN NETSVLPCE</p> <p>GHHLPVQFD FTGIGDLESK AKDALVDIIG ICKSYEDSIK ITVKSNNREV AKRNIYLM DM</p> <p>SGKVVTTLW GEDADKFDGS RQPVMAIKGA RVSDFGGRSL SVLSSSTVIV NPDIP EAYKL</p> <p>RGWFDSEGQA LDGVSISDHR SGGAGGGNTN WKT LHEAKSE NLGQGDKADY FSTVA AVVFL</p> <p>RKENC MYQAC PTQDCNKKVI DQQNGLYRCE KCDREFPNFK YRMILSANIA DFQENQWVTC</p> <p>FQESAEAILG QNTMYLGELK EKNEQAFEEV FQANFRSFT FRIRVKLETY NDESR IKATV</p> <p>MDVKPVDFRD YGRRLIANIR KNM Sequence without tag. The proposed Purification-Tag is</p>

based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	RPA1
Alternative Name:	Rpa1 (RPA1 Products)
Background:	<p>Replication protein A 70 kDa DNA-binding subunit (RP-A p70) (Replication factor A protein 1) (RF-A protein 1),FUNCTION: As part of the heterotrimeric replication protein A complex (RPA/RP-A), binds and stabilizes single-stranded DNA intermediates, that form during DNA replication or upon DNA stress. It prevents their reannealing and in parallel, recruits and activates different proteins and complexes involved in DNA metabolism. Thereby, it plays an essential role both in DNA replication and the cellular response to DNA damage. In the cellular response to DNA damage, the RPA complex controls DNA repair and DNA damage checkpoint activation. Through recruitment of ATRIP activates the ATR kinase a master regulator of the DNA damage response. It is required for the recruitment of the DNA double-strand break repair factors RAD51 and RAD52 to chromatin in response to DNA damage. Also recruits to sites of DNA damage proteins like XPA and XPG that are involved in nucleotide excision repair and is</p>

Target Details

required for this mechanism of DNA repair. Also plays a role in base excision repair (BER) probably through interaction with UNG. Also recruits SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance. {ECO:0000250|UniProtKB:P27694}.

Molecular Weight:	69.0 kDa
UniProt:	Q8VEE4
Pathways:	Telomere Maintenance , DNA Damage Repair , Mitotic G1-G1/S Phases , DNA Replication , Chromatin Binding , Synthesis of DNA

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months