

Datasheet for ABIN7555115

RAD50 Protein (AA 1-1312) (His tag)



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Overview

Quantity:	1 mg
Target:	RAD50
Protein Characteristics:	AA 1-1312
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAD50 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat RAD50 Protein expressed in mammalian cells.
Sequence:	MSRIEKMSIL GVRSGIEDK DKQIITFFSP LTILVGPNGA GKTTIECLK YICTGDFPPG TKGNTFVHDP KVAQETDVRA QIRLQFRDVN GELIAVQRSM VCTQKSKKTE FKTLEGVITR TKHGEKVSL SKCAEIDREM ISSLGVSKAV LNNVIFCHQE DSNWPLSEGG ALKQKFDEIF SATRYIKALE TLRQVRQTQG QKVKEYQMEL KYLKQYKEKA CEIRDQITSK EAQLTSSKEI VKSYENELDP LKNRLKEIEH NLSKIMKLDN EIKALDSRKK QMEKDNSELE EKMEKVFQGT DEQLNDLYHN HQRTVREKER KLVDCHRELE KLNKESRLLN QEKSELLVEQ GRLQLQADRH QEHIRARDSL IQSLATQLEL DGFERGPFSE RQIKNFHKLK RERQEGEAKT ANQLMNDFAE KETLKQKQID EIRDKKTGLG RIELKSEIL SKKQNELKNV KYELQQLEGS SDRILELDQE LIKAERELSK AEKNSNVETL KMEVISLQNE KADLDRTLRLK LDQEMEQLNH HTTTRTQMEM LTKDKADKDE QIRKIKSRHS DELTSLLGYF PNKKQLEDWL HSKSKEINQT RDLAKLNKE LASSEQNKNH INNELKRKEE QLSSYEDKLF DVCQSQDFES DLDRLKEEIE KSSQQRAMLG GATAVYSQFI

TQLTDENQSC CPVCQRVFQT EAEQEVISD LQSKLRLAPD KLKSTESSELK KKEKRRDEML
GLVPMRQSII DLKEKEIPEL RNKLQNVNRD IQRLKNDIEE QETLLGTIMP EEESAKVCLT
DVTIMERFQM ELKDVERKIA QQAACLQGID LDRTVQQVNQ EKQEKQHKLD TVSSKIELNR
KLIQDQQEQI QHLKSTTNEL KSEKLQISTN LQRRQQLEEQ TVELSTEVQS LYREIKDAKE
QVSPLETTLE KFQQEKEELI NKKNTSNKIA QDKLNDIKEK VKNIHGYMKD IENYIQDGKD
DYKKQKETEL NKVIAQLSEC EKHKEKINED MRLMRQDIDT QKIQRWLQD NLTLRKRNEE
LKEVEEERKQ HLKEMGQMQV LQMKSEHQKL EENIDNIKRN HNLALGRQKG YEEIIHFKK
ELREPQFRDA EEKYREMMIV MRTTELVNKD LDIYYKTLQ AIMKFHSMKM EEINKIIRDL
WRSTYRGQDI EYIEIRSDAD ENVSASDKRR NYNRYVVMLK GDTALDMRGR CSAGQKVLAS
LIIRLALAET FCLNCGIIAL DEPTTNLDRE NIESLAHALV EIKSRSQQR NFQLLVITHD EDFVELLGRS
EYVEKFYRIK KNIDQCSEIV KCSVSSLGFN VH **Sequence without tag. The proposed
Purification-Tag is 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:	Key Benefits: • 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). 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	RAD50
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Target Details

Alternative Name:	RAD50 (RAD50 Products)
Background:	DNA repair protein RAD50 (hRAD50) (EC 3.6.-.-),FUNCTION: Component of the MRN complex, which plays a central role in double-strand break (DSB) repair, DNA recombination, maintenance of telomere integrity and meiosis. The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11. RAD50 may be required to bind DNA ends and hold them in close proximity. This could facilitate searches for short or long regions of sequence homology in the recombining DNA templates, and may also stimulate the activity of DNA ligases and/or restrict the nuclease activity of MRE11 to prevent nucleolytic degradation past a given point (PubMed:11741547, PubMed:9590181, PubMed:9705271, PubMed:9651580). The complex may also be required for DNA damage signaling via activation of the ATM kinase (PubMed:15064416). In telomeres the MRN complex may modulate t-loop formation (PubMed:10888888). {ECO:0000269 PubMed:10888888, ECO:0000269 PubMed:11741547, ECO:0000269 PubMed:15064416, ECO:0000269 PubMed:9590181, ECO:0000269 PubMed:9651580, ECO:0000269 PubMed:9705271}.
Molecular Weight:	153.9 kDa
UniProt:	Q92878
Pathways:	DNA Damage Repair , Protein targeting to Nucleus

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.

Handling

Expiry Date: 12 months