

Datasheet for ABIN7555146  
**RAD21 Protein (AA 1-631) (His tag)**



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## Overview

Quantity:	1 mg
Target:	RAD21
Protein Characteristics:	AA 1-631
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAD21 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat RAD21 Protein expressed in mammalian cells.
Sequence:	<p>MFYAHFVLSK RGPLAKIWL AHWDKKLT KA HVFECNLESS VESIISPKVK MALRTSGHLL</p> <p>LGVVRIYHRK AKYLLADCNE AFIKIKMAFR PGVVDLPEEN REAAYNAITL PEEFHDFDQP</p> <p>LPDLDDIDVA QQFSLNQSRV EEITMREEVG NISILQENDF GDFGMDDREI MREGSAFEDD</p> <p>DMLVSTTTSN LLESEQSTS NLNEKINHLE YEDQYKDDNF GEGNDGGILD DKLISNNDGG</p> <p>IFDDPPALSE AGVMLPEQPA HDDMDEDDNV SMGGPDSPDS VDPVEPMPTM TDQTTLVPNE</p> <p>EEAFALPID ITVKETKAKR KRKLIVDSVK ELDSKTIRAQ LSDYSDIVTT LDLAPPTKKL</p> <p>MMWKETGGVE KLFSLPAQPL WNNRLLKLFT RCLTLPVPED LRKRRKGGEA DNLDEFLKEF</p> <p>ENPEVPREDQ QQQHQQRDVI DEPIIEEPSR LQESVMEASR TNIDESAMPP PPPQGVKRKA</p> <p>GQIDPEPVMP PQQVEQMEIP PVELPPEEPP NICQLIPELE LLPEKEKEKE KEKEDDEEEE</p> <p>DEDASGGDQD QEERRWNKRT QQMLHGLQRA LAKTGAESIS LLELCRNTNR KQAAAKFYSF</p> <p>LVLKKQQAIE LTQEEPYS DI IATPGPRFHI   <b>Sequence without tag. The proposed Purification-</b></p>

**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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <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:	RAD21
Alternative Name:	RAD21 ( <a href="#">RAD21 Products</a> )
Background:	<p>Double-strand-break repair protein rad21 homolog (hHR23A) (Nuclear matrix protein 1) (NXP-1) (SCC1 homolog) [Cleaved into: 64- kDa C-terminal product (64- kDa carboxy-terminal product) (65- kDa carboxy-terminal product)],FUNCTION: [Double-strand-break repair protein rad21 homolog]: As a member of the cohesin complex, involved in sister chromatid cohesion from the time of DNA replication in S phase to their segregation in mitosis, a function that is essential for proper chromosome segregation, post-replicative DNA repair, and the prevention of inappropriate recombination between repetitive regions (PubMed:11509732). The cohesin complex may also play a role in spindle pole assembly during mitosis (PubMed:11590136). In interphase, cohesins may function in the control of gene expression by binding to numerous sites within the genome (By similarity). May control RUNX1 gene expression (Probable). Binds</p>

## Target Details

to and represses APOB gene promoter (PubMed:25575569). May play a role in embryonic gut development, possibly through the regulation of enteric neuron development (By similarity). {ECO:0000250|UniProtKB:Q61550, ECO:0000250|UniProtKB:Q6TEL1, ECO:0000269|PubMed:11509732, ECO:0000269|PubMed:11590136, ECO:0000269|PubMed:25575569, ECO:0000305|PubMed:25575569}., FUNCTION: [64- kDa C-terminal product]: May promote apoptosis. {ECO:0000269|PubMed:11875078, ECO:0000269|PubMed:12417729}.

Molecular Weight: 71.7 kDa

UniProt: [O60216](#)

Pathways: [Positive Regulation of Endopeptidase Activity](#)

## 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