

Datasheet for ABIN7564302

## Retinoblastoma Binding Protein 8 Protein (RBBP8) (AA 1-893) (His tag)



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### Overview

Quantity:	1 mg
Target:	Retinoblastoma Binding Protein 8 (RBBP8)
Protein Characteristics:	AA 1-893
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Retinoblastoma Binding Protein 8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Rbbp8 Protein expressed in mammalian cells.
Sequence:	<p>MSISGSGCGS PNSADASNDF KELWTKLKEY HDKEVQGLQV KVTKLKKERI LDAQRLEEFF</p> <p>TKNQQLRDQQ KVLQETIKIL EDRLRAGLCD RCAVTEEHMH KKQQEFENIR QQNLKLITEL</p> <p>MNEKNTLQEE NKKLSEQLQQ KMENGQQDQV AELACEENII PDSPVTSFSF SGINRLRKKE</p> <p>NLHVRYVEQT HTKLERSLCT NELRKISKDS APAPVNSEEH EILVADTCDQ NHSPLSKICE</p> <p>TSSYPDKTS FNLDTVVAET LGLNGQEESE PQGPMSPLGS ELYHCLKEDH KKHPFMESAR</p> <p>SKEDSLRFSD SASKTPPQEF TTRASSPVFG ATSTVKAHLG LNTSFSPSLL DIGKKNLLKT</p> <p>APFSNIAVSR SEKVRKSED NALFTQHSLG SEVKVISQSF SSKQILTNTK VSDSVDEQCS</p> <p>ADHMNTTVAD KYLVPLKSLG GKASKRKRTE EESEHAVKCP QACFDKENAL PFPMENQFSM</p> <p>NGDHVMDKPL DLSDRFAATQ RQEKNHGNET SKNKLKQATI YEALKPIPKG SSSGRKALSG</p> <p>DCMPAKDSWE TYCLQPRSLQ SSSKFSPDQK TPLQIKEENP VFKTTPCSQE SLETENLFGD</p> <p>VKGTGSLVPT KVKSTRAVHGG CELASVLQLN PCRVAKTKAL PSNQDTSFEN IQWSVDPGAD</p>

LSQYKMDVTV IDTKDSSHRS LGGETVDMDC TLVSETVLLK MKKQEQKERS PNGDIKMNDS  
LEDMFDRTH EEYESCLADS FSQVPDEEEL PDTTKKTNP ADKQDGVKQK AFVGPYFKDK  
ERETSIQNFP HIEVVRKKEE RRKLLGHTCK ECEIYYADLP AEEREKKLAS CSRHRFRYIP  
PNTPENFWEV GFPSTQTCLE RGYIKEDLDL SPRPKRRQPY NAVFSPKGKE QRT **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:	<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>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	Retinoblastoma Binding Protein 8 (RBBP8)
Alternative Name:	Rbbp8 ( <a href="#">RBBP8 Products</a> )
Background:	DNA endonuclease RBBP8 (EC 3.1.-.-) (CtBP-interacting protein) (CtIP) (Retinoblastoma-binding protein 8) (RBBP-8) (Retinoblastoma-interacting protein and myosin-like) (RIM) (Sporulation in the absence of SPO11 protein 2 homolog) (SAE2),FUNCTION: Endonuclease that cooperates with the MRE11-RAD50-NBN (MRN) complex in DNA-end resection, the first step of double-strand break (DSB) repair through the homologous recombination (HR) pathway (By similarity). HR is restricted to S and G2 phases of the cell cycle and preferentially repairs DSBs resulting

## Target Details

from replication fork collapse (By similarity). Key determinant of DSB repair pathway choice, as it commits cells to HR by preventing classical non-homologous end-joining (NHEJ) (By similarity). Functions downstream of the MRN complex and ATM, promotes ATR activation and its recruitment to DSBs in the S/G2 phase facilitating the generation of ssDNA (By similarity). Component of the BRCA1-RBBP8 complex that regulates CHEK1 activation and controls cell cycle G2/M checkpoints on DNA damage (By similarity). During immunoglobulin heavy chain class-switch recombination, promotes microhomology-mediated alternative end joining (A-NHEJ) and plays an essential role in chromosomal translocations (PubMed:21131978, PubMed:21131982). Binds preferentially to DNA Y-junctions and to DNA substrates with blocked ends and promotes intermolecular DNA bridging (By similarity). {ECO:0000250|UniProtKB:Q99708, ECO:0000269|PubMed:21131978, ECO:0000269|PubMed:21131982}.

Molecular Weight:	100.8 kDa
UniProt:	<a href="#">Q80YR6</a>
Pathways:	<a href="#">Cell Division Cycle, DNA Damage Repair</a>

## 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