Datasheet for ABIN7555199

RECQL5 Protein (AA 1-991) (His tag)

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Overview

Quantity:	1 mg
Target:	RECQL5
Protein Characteristics:	AA 1-991
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RECQL5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat RECQL5 Protein expressed in mammalien cells.
Sequence:	MSSHHTTFPF DPERRVRSTL KKVFGFDSFK TPLQESATMA VVKGNKDVFV CMPTGAGKSL CYQLPALLAK GITIVVSPLI ALIQDQVDHL LTLKVRVSSL NSKLSAQERK ELLADLEREK PQTKILYITP EMAASSSFQP TLNSLVSRHL LSYLVVDEAH CVSQWGHDFR PDYLRLGALR SRLGHAPCVA LTATATPQVQ EDVFAALHLK KPVAIFKTPC FRANLFYDVQ FKELISDPYG NLKDFCLKAL GQEADKGLSG CGIVYCRTRE ACEQLAIELS CRGVNAKAYH AGLKASERTL VQNDWMEEKV PVIVATISFG MGVDKANVRF VAHWNIAKSM AGYYQESGRA GRDGKPSWCR LYYSRNDRDQ VSFLIRKEVA KLQEKRGNKA SDKATIMAFD ALVTFCEELG CRHAAIAKYF GDALPACAKG CDHCQNPTAV RRRLEALERS SSWSKTCIGP SQGNGFDPEL YEGGRKGYGD FSRYDEGSGG SGDEGRDEAH KREWNLFYQK QMQLRKGKDP KIEEFVPPDE NCPLKEASSR RIPRLTVKAR EHCLRLLEEA LSSNRQSTRT ADEADLRAKA VELEHETFRN AKVANLYKAS VLKKVADIHR ASKDGQPYDM GGSAKSCSAQ AEPPEPNEYD IPPASHVYSL KPKRVGAGFP

Product Details

	KGSCPFQTAT ELMETTRIRE QAPQPERGGE HEPPSRPCGL LDEDGSEPLP GPRGEVPGGS AHYGGPSPEK KAKSSSGGSS LAKGRASKKQ QLLATAAHKD SQSIARFFCR RVESPALLAS APEAEGACPS CEGVQGPPMA PEKYTGEEDG AGGHSPAPPQ TEECLRERPS TCPPRDQGTP EVQPTPAKDT WKGKRPRSQQ ENPESQPQKR PRPSAKPSVV AEVKGSVSAS EQGTLNPTAQ DPFQLSAPGV SLKEAANVVV KCLTPFYKEG KFASKELFKG FARHLSHLLT QKTSPGRSVK EEAQNLIRHF FHGRARCESE ADWHGLCGPQ R **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 mammalien 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:	RECQL5
Alternative Name:	RECQL5 (RECQL5 Products)
Background:	ATP-dependent DNA helicase Q5 (EC 5.6.2.4) (DNA 3'-5' helicase RecQ5) (DNA helicase, RecQ-like type 5) (RecQ5) (RecQ protein-like 5),FUNCTION: DNA helicase that plays an important role in DNA replication, transcription and repair (PubMed:20643585, PubMed:22973052, PubMed:28100692). Probably unwinds DNA in a 3'-5' direction (PubMed:28100692) (Probable).

Target Details

	Binds to the RNA polymerase II subunit POLR2A during transcription elongation and suppresses transcription-associated genomic instability (PubMed:20231364). Associates also with POLR1A and enforces the stability of ribosomal DNA arrays (PubMed:27502483). Plays an important role in mitotic chromosome separation after cross-over events and cell cycle progress (PubMed:22013166). Mechanistically, removes RAD51 filaments protecting stalled replication forks at common fragile sites and stimulates MUS81-EME1 endonuclease leading to mitotic DNA synthesis (PubMed:28575661). Required for efficient DNA repair, including repair of inter-strand cross-links (PubMed:23715498). Stimulates DNA decatenation mediated by TOP2A. Prevents sister chromatid exchange and homologous recombination. A core helicase fragment (residues 11-609) binds preferentially to splayed duplex, looped and ssDNA (PubMed:28100692). {ECO:0000269|PubMed:20231364, ECO:0000269|PubMed:20348101, ECO:0000269|PubMed:20643585, ECO:0000269|PubMed:22013166, ECO:0000269|PubMed:22973052, ECO:0000269|PubMed:23715498, ECO:0000269|PubMed:23748380, ECO:0000269|PubMed:27502483, ECO:0000269|PubMed:28100692, ECO:0000269|PubMed:28575661, ECO:0000305|PubMed:28100692}.
Molecular Weight:	108.9 kDa
UniProt:	O94762

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