Datasheet for ABIN7552673

BLM Protein (AA 1-1417) (His tag)

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Overview

Quantity:	1 mg
Target:	BLM
Protein Characteristics:	AA 1-1417
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BLM protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat BLM Protein expressed in mammalien cells.
Sequence:	MAAVPQNNLQ EQLERHSART LNNKLSLSKP KFSGFTFKKK TSSDNNVSVT NVSVAKTPVL RNKDVNVTED FSFSEPLPNT TNQQRVKDFF KNAPAGQETQ RGGSKSLLPD FLQTPKEVVC TTQNTPTVKK SRDTALKKLE FSSSPDSLST INDWDDMDDF DTSETSKSFV TPPQSHFVRV STAQKSKKGK RNFFKAQLYT TNTVKTDLPP PSSESEQIDL TEEQKDDSEW LSSDVICIDD GPIAEVHINE DAQESDSLKT HLEDERDNSE KKKNLEEAEL HSTEKVPCIE FDDDDYDTDF VPPSPEEIIS ASSSSSKCLS TLKDLDTSDR KEDVLSTSKD LLSKPEKMSM QELNPETSTD CDARQISLQQ QLIHVMEHIC KLIDTIPDDK LKLLDCGNEL LQQRNIRRKL LTEVDFNKSD ASLLGSLWRY RPDSLDGPME GDSCPTGNSM KELNFSHLPS NSVSPGDCLL TTTLGKTGFS ATRKNLFERP LFNTHLQKSF VSSNWAETPR LGKKNESSYF PGNVLTSTAV KDQNKHTASI NDLERETQPS YDIDNFDIDD FDDDDDWEDI MHNLAASKSS TAAYQPIKEG RPIKSVSERL SSAKTDCLPV SSTAQNINFS ESIQNYTDKS AQNLASRNLK HERFQSLSFP HTKEMMKIFH

	KKFGLHNFRT NQLEAINAAL LGEDCFILMP TGGGKSLCYQ LPACVSPGVT VVISPLRSLI VDQVQKLTSL DIPATYLTGD KTDSEATNIY LQLSKKDPII KLLYVTPEKI CASNRLISTL ENLYERKLLA RFVIDEAHCV SQWGHDFRQD YKRMNMLRQK FPSVPVMALT ATANPRVQKD ILTQLKILRP QVFSMSFNRH NLKYYVLPKK PKKVAFDCLE WIRKHHPYDS GIIYCLSRRE CDTMADTLQR DGLAALAYHA GLSDSARDEV QQKWINQDGC QVICATIAFG MGIDKPDVRF VIHASLPKSV EGYYQESGRA GRDGEISHCL LFYTYHDVTR LKRLIMMEKD GNHHTRETHF NNLYSMVHYC ENITECRRIQ LLAYFGENGF NPDFCKKHPD VSCDNCCKTK DYKTRDVTDD VKSIVRFVQE HSSSQGMRNI KHVGPSGRFT MNMLVDIFLG SKSAKIQSGI FGKGSAYSRH NAERLFKKLI LDKILDEDLY INANDQAIAY VMLGNKAQTV LNGNLKVDFM ETENSSSVKK QKALVAKVSQ REEMVKKCLG ELTEVCKSLG KVFGVHYFNI FNTVTLKKLA ESLSSDPEVL LQIDGVTEDK LEKYGAEVIS VLQKYSEWTS PAEDSSPGIS LSSSRGPGRS AAEELDEEIP VSSHYFASKT RNERKRKKMP ASQRSKRRKT ASSGSKAKGG SATCRKISSK TKSSSIIGSS SASHTSQATS GANSKLGIMA PPKPINRPFL KPSYAFS **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:	BLM
Alternative Name:	BLM (BLM Products)
Background:	RecQ-like DNA helicase BLM (EC 5.6.2.4) (Bloom syndrome protein) (DNA 3'-5' helicase BLM) (DNA helicase, RecQ-like type 2) (RecQ2) (RecQ protein-like 3),FUNCTION: ATP-dependent DNA helicase that unwinds single- and double-stranded DNA in a 3'-5' direction (PubMed:9388193, PubMed:24816114, PubMed:25901030). Participates in DNA replication and repair (PubMed:12019152, PubMed:21325134, PubMed:23509288, PubMed:34606619). Involved in 5'-end resection of DNA during double-strand break (DSB) repair: unwinds DNA and recruits DNA2 which mediates the cleavage of 5'-ssDNA (PubMed:21325134). Negatively regulates sister chromatid exchange (SCE) (PubMed:25901030). Stimulates DNA 4-way junction branch migration and DNA Holliday junction dissolution (PubMed:25901030). Binds single-stranded DNA (ssDNA), forked duplex DNA and DNA Holliday junction (PubMed:20639533, PubMed:24257077, PubMed:25901030). Recruited by the KHDC3L-OOEP scaffold to DNA replication forks where it is retained by TRIM25 ubiquitination, it thereby promotes the restart of stalled replication forks (By similarity). {ECO:0000250|UniProtKB:O88700, ECO:0000269|PubMed:12019152, ECO:0000269|PubMed:20639533, ECO:0000269|PubMed:21325134, ECO:0000269|PubMed:23509288, ECO:0000269|PubMed:24257077, ECO:0000269|PubMed:24816114, ECO:0000269|PubMed:25901030, ECO:0000269|PubMed:34606619, ECO:0000269|PubMed:9388193}., FUNCTION: (Microbial infection) Eliminates nuclear HIV-1 cDNA, thereby suppressing immune sensing and proviral hyper-integration. {ECO:0000269|PubMed:32690953}.
Molecular Weight:	159.0 kDa
UniProt:	P54132
Pathways:	DNA Damage Repair

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