Datasheet for ABIN7564075

BTBD12 Protein (AA 1-1565) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	BTBD12
Protein Characteristics:	AA 1-1565
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BTBD12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slx4 Protein expressed in mammalian cells.
Sequence:	MVPESAPNGN SQPLPSCFTT TGVPSPSKPR VSELVLQRMK QFKRADPERL RHASEESPQK TALGDDVPRS PPEETVGENE YKLDATDSDA AMALALQQEF RREEASSHHD SLEEKGLFFC QMCQKNLSAM NVTRREQHVN RCLDEAEKAQ RPASPRIPDC PICGKPFLTT KSRISHLKQC AVRMEVGPQL LLQAVRLQTA QPEVDGSPQV PSFSNNVGGL KRKGVTTKRE PRRRKVNKPE APSEDLLVAM ALSRSEVEHC PVVPPLRLEN AFSEKIRLGA EKKSRKKRPP VCPPQLVTQD SETTGRQIED RVAQLLSEEA ELSCTPPLLA SKISKEELEP AGWRARLPEG KRNFLWELSA LTGAWAEESF YTVGLFPPIV SQCPSKEPQL PLELPKQGEP SPRRPPASQS SLPVSHSPKI RLLSSSQRER QALQDLVDLA VEGLSSSPQP GSRGVPTGLD LVPSSLPLTG FVLPCKKTLK KDDSASLSLG LLVTDFGAMV NNPHLSDVQF QLDSGEVLYA HKFVLYARCP LLIQYVSTES FSSEEDGDLT QRALLSDVSS EAAHAFLNYL YMADTDMPPS LVPDLRSLAL RFGVSDLVQL CEQVPAVVDL EGEQPEETSE DCESRAETFL ELLRSVWVDN EEEVETLLKP ELCEEERERV NEAEMEEIYE FAATQRKLLQ WGRAADPDGS TNPHGEDGAV SEPSLAGVQS NRQLENTEHM

	ESSGLEKEEA LASWEQEGHS TPLQDQCPDW AGKAEAQDAL GEATDDPSFC SRHRRGKECL PLHPNKAHGC KQPLPSNPRV SSELSQITVD HEEQSDHVRE TQADMAQAPT PHSCSLVSQS SVDGSPSQSW LHLYHTSHLS PSVSQSHSSI SRVASPRSLS PTTPTKQRRG SNIVTLRKDA GHHRGQQSSP IAGHRNRGIL ISPAKSPPID LTQSVPEPLS PRAQDPLHFV KKEDEVILLL DSDEELEHTK TESVSKDSPE GRKVPEFSPR SSELFSVIDV EEDHEHFQSP LKREAGLQHG EEGQLGNQSA LGCRDIPWLL CSQKTSLDED SATDTSWLVP ATPGVSRSRD CSSQTQIKSL KTRIPSDETA QQTPRPNLER RTMLETAQQF SVIMPHTQPI TLGAFDSGRQ AYRSPSHPYP RHHRLSSSQP SCPGPDFTRW SQKSSAPRPC LPNLPAADDV VEVGDSDDEV ASHQGNSSPV LDGDPPGPMG DYCWNEPLSP IPIDHLNLER TGPLTTSSPS SQVLEALHSD DCHSPGLGTT PIRGSCGTLR ESQERSSLAG SPEALWDDWN EEEGQSPEAP PVAQMLSTRT RKPDRPETPK GANQKKNLPP KVPITPMPRY SIMETPVLKK ELDRFGVRAL PKRQMVLKLK EIFQYTHQTL ESDSEDEVQS PQIPAELPCR QASTTETCNP SRLPTGEPSH PDGDAQLPAS QESMATSVDG SDNSFSSKSS SAEFGAAFEY SDEDKDEEVG VTASQAAIQA ADTEEAVRRY IRSKPALHRQ VLRYQPVELA ELQAELKQNG IPVAMGKLSD ILDAQCITFT TAAARKEKLK HKRRQPSGRK KKDQK **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Product Details

Grade:	custom-made

Target Details

Target:	BTBD12
Alternative Name:	Slx4 (BTBD12 Products)
Background:	Structure-specific endonuclease subunit SLX4 (BTB/POZ domain-containing protein 12),FUNCTION: Regulatory subunit that interacts with and increases the activity of different structure-specific endonucleases. Has several distinct roles in protecting genome stability by resolving diverse forms of deleterious DNA structures originating from replication and recombination intermediates and from DNA damage. Component of the SLX1-SLX4 structure-specific endonuclease that resolves DNA secondary structures generated during DNA repair and recombination. Has endonuclease activity towards branched DNA substrates, introducing single-strand cuts in duplex DNA close to junctions with ss-DNA. Has a preference for 5'-flap structures, and promotes symmetrical cleavage of static and migrating Holliday junctions (HJs). Resolves HJs by generating two pairs of ligatable, nicked duplex products. Interacts with the structure-specific ERCC4-ERCC1 endonuclease and promotes the cleavage of bubble structures. Interacts with the structure-specific MUS81-EME1 endonuclease and promotes the cleavage of 3'-flap and replication fork-like structures. SLX4 is required for recovery from alkylation-induced DNA damage and is involved in the resolution of DNA double-strand breaks (By similarity). {ECO:0000250}.
Molecular Weight:	172.4 kDa
UniProt:	Q6P1D7
Pathways:	DNA Damage Repair

Application Details

Application Notes:	We expect the protein to work for functional studies. 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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

