

Datasheet for ABIN7545019
USP51 Protein (AA 1-711) (His tag)



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Overview

Quantity:	1 mg
Target:	USP51
Protein Characteristics:	AA 1-711
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP51 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant USP51 Protein expressed in mammalian cells.
Sequence:	MAQVRETSLP SGSGVRWISG GGGGASPEEA VEKAGKMEEA AAGATKASSR REAEEMKLEP LQEREPAPPEE NLTWSSSGGD EKVLPSIPLR CHSSSSPVCP RRRKPRPRQP RARSRSQPGL SAPPPPPARP PPPPPPPPPP APRPRAWRGS RRRSRPGSRP QTRRSCSGDL DGSGDPGGLG DWLLEVEFGQ GPTGCSHVES FKVGKNWQKN LRLIYQRFVW SGTPETRKRK AKSCICHVCS THMNRLHSCL SCVFFGCFTK KHIHKHAETK QHHLAVDLYH GVIYCFMCKD YVYDKDIEQI AKETKEKILR LLTSTSTDVS HQQFMTSGFE DKQSTCETKE QEPKLVKPKK KRRKKS VYTV GLRGLINLGN TCFMNCIVQA LTHIPLLKDF FLSDKHKCIM TSPSLCLVCE MSSLFHAMYS GSRTPHIPYK LLHLIWIHAE HLAGYRQQDA HEFLIAILDV LHRHSKDDSG GQEANNPNCC NCIIDQIFTG GLQSDVTCQA CHSVSTTIDP CWDISLDLPG SCATFDSQNP ERADSTVSRD DHIPGIPSLT DCLQWFTRPE HLGSSAKIKC NSCQSYQEST KQLTMKKLPI VACFHLKRFE HVGKQRRKIN TFISFPLELD MTPFLASTKE SRMKEGQPPT DCVPNENKYS LFAVINHHGT LESGHYTSFI RQQKDQWFSC DDAITKATI EDLLYSEGYL LFYHKQGLEK D Sequence without tag.

Product Details

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)

Grade: custom-made

Target Details

Target: USP51

Alternative Name: USP51 ([USP51 Products](#))

Background: Ubiquitin carboxyl-terminal hydrolase 51 (EC 3.4.19.12) (Deubiquitinating enzyme 51) (Ubiquitin thioesterase 51) (Ubiquitin-specific-processing protease 51),FUNCTION: Specifically deubiquitinates 'Lys-14' (H2AK13Ub) and 'Lys-16'(H2AK15Ub) of histone H2A regulating the DNA damage response at double-strand breaks (DSBs) (PubMed:27083998). USP51 is recruited to chromatin after DNA damage and regulates the dynamic assembly/disassembly of TP53BP1 and BRCA1. Exhibits also activity for 'Lys-27' or 'Lys-63'-linked di-ubiquitin (PubMed:27083998). {ECO:0000269|PubMed:27083998}.

Target Details

Molecular Weight: 79.8 kDa

UniProt: [Q70EK9](#)

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 Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months