

Datasheet for ABIN7555947
USP16 Protein (AA 1-823) (His tag)



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Overview

Quantity:	1 mg
Target:	USP16
Protein Characteristics:	AA 1-823
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP16 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat USP16 Protein expressed in mammalian cells.
Sequence:	MGKKRTKGKT VPIDDSSETL EPVCRHIRKG LEQGNLKKAL VNVEWNICQD CKTDNKVKDK AEEETEEKPS VWLCLKCGHQ GCGRNSQEQH ALKHYLTPRS EPHCLVLSLD NWSVWCYVCD NEVQYCSSNQ LGQVVDYVRK QASITTPKPA EKDNNGIELE NKKLEKESKN EQEREKENM AKENPPMNSP CQITVKGLSN LGNTCFFNAV MQNLSQTPVL RELLKEVKMS GTIVKIEPPD LALTEPLEIN LEPPGPLTLA MSQFLNEMQE TTKGVVTPKE LFSQVCKKAV RFKGYQQQDS QELLRYLLDG MRAEEHQ RVS KGILKAFGNS TEKLDEELKN KVKDYEKKKS MPSFVDRIFG GELTSMIMCD QCRTVSLVHE SFLDLSLPVL DDQSGKKS VN DKNLKKTVED EDQDSEEEKD NDSYIKERSD IPSGTSKHLQ KKAKKQAKKQ AKNQRQKQKI QGKVLHLNDI CTIDHPEDSE YEAEMSLQGE VNIKSNHISQ EGVMHKEYCV NQKDLNGQAK MIESVTDNQK STEEVD MKNI NMDNDLEVL TSSPTRNLNGA YLTEGNGEV DISNGFKNLN LNAALHPDEI NIEILNDSHT PGTKVYEVVN EDPETAFACTL ANREVFNTDE CSIQHCLYQF TRNEKLRDAN KLLCEVCTRR

Product Details

QCNGPKANIK GERKHVYTNA KKQMLISLAP PVLTLHLKRF QQAGFNLRKV NKHIKFPEIL
DLAPFCTLKC KNVAEENTRV LYSLYGVVEH SGTMRSGHYT AYAKARTANS HLSNLVLHGD
IPQDFEMESK GQWFHISDTH VQAVPTTKVL NSQAYLLFYE RIL **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 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, Western Blot

Grade:

custom-made

Target Details

Target:

USP16

Alternative Name:

USP16 ([USP16 Products](#))

Background:

Ubiquitin carboxyl-terminal hydrolase 16 (EC 3.4.19.12) (Deubiquitinating enzyme 16) (Ubiquitin thioesterase 16) (Ubiquitin-processing protease UBP-M) (Ubiquitin-specific-processing protease 16),FUNCTION: Specifically deubiquitinates 'Lys-120' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator (PubMed:17914355). Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser-11' of histone H3 (H3S10ph), and is required for chromosome segregation when cells enter into mitosis (PubMed:17914355). In resting B- and T-lymphocytes,

Target Details

phosphorylation by AURKB leads to enhance its activity, thereby maintaining transcription in resting lymphocytes. Regulates Hox gene expression via histone H2A deubiquitination (PubMed:17914355). Prefers nucleosomal substrates (PubMed:17914355). Does not deubiquitinate histone H2B (PubMed:17914355). Also deubiquitinates non-histone proteins, such as ribosomal protein RPS27A: deubiquitination of monoubiquitinated RPS27A promotes maturation of the 40S ribosomal subunit (PubMed:32129764). {ECO:0000255|HAMAP-Rule:MF_03062, ECO:0000269|PubMed:17914355, ECO:0000269|PubMed:32129764}.

Molecular Weight: 93.6 kDa

UniProt: [Q9Y5T5](#)

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