

Product datasheet

Recombinant Human USP16 protein ab161059

1 Image

Overview

<b>Product name</b>	Recombinant Human USP16 protein
<b>Protein length</b>	Full length protein

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human

<b>Sequence</b>	<p>           MGKKRTKGKTVPIDDSETLEPVCRHIRKGLEQGNLKK            ALVNVEWNICQD            CKTDNKVKDKAEETEETEEKPSVWLCLKCGHQGCGRN            SQEQHALKHYLTPRS            EPHCLVLSLDNWSVWCYVCDNEVQYCSSNQLGQVV            DYVRKHASITTPKPE            KDNGNIELENKKLEKESKNEQEREKKNMAKENPPM            NSPCQITVKGLSNL            GNTCFFNAVMQNLSTPVLRELLKEVKMSGTVKIEPP            DLALTEPLEINL            EPPGPLTLAMSQFLNEMQETKKGVVTPKELFSQVCK            KAVRFKGYQQQDSQ            ELLRYLLDGMRAEEHQRVSKGILKAFGNSTEKLDEELK            NKVKDYEKKSM            PSFVDRIFGGELTSMIMCDQCRTVSLVHESFLDLSLPV            LDDQSGKKSVD            KNLKKTVEDEDQDSEEEKDNDSEYKERSDIPSGTSKHL            QKKAKKQAKKQA            KNQRRQKIQGKVLHLNDICTIDHPEDSDNEAEMSLQG            EVNIKSNHISQE            GVMHKEYCVNQKDLNGQAKMIESVTDNQNKSTEEVDM            KNINMDNDLEVLTS            SPTRNLNGAYLTEGSNGEVDISNGFKNLNLNAALHPDE            INIEILNDSHTP            GTKVYEVVNEDEPETAFACTLANREVFNTDECSIQHCLYQ            FTRNEKLRDANK         </p>
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LLCEVCTRRQCNGPKANIKGERKHVYTNNAKKQMLISLA  
PPVLTLLHLKRFQ  
QAGFNLRKVNKHIKFPEILDLPFCTLKCKNVAEENTR  
VLYSLYGVVEHS  
GTMRSGHYTA YAKARTANSHLSNLVHLHGDIPQDFEME  
SKGQWFHISDTHV QAVPTTKVLNSQAYLLFYERIL

**Amino acids** 1 to 822  
**Tags** GST tag N-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab161059** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** ELISA  
Western blot

**Form** Liquid

**Additional notes** Protein concentration is above or equal to 0.05 mg/ml.

## Preparation and Storage

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**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
pH: 8.00  
Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

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**Function** Specifically deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser-10' of histone H3, and is required for chromosome segregation when cells enter into mitosis. Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B.

**Tissue specificity** Present in all the tissues examined including fetal brain, lung, liver, kidney, and adult heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

**Involvement in disease** Note=A chromosomal aberration involving USP16 is a cause of Chronic myelomonocytic leukemia. Inversion inv(21) (q21;q22) with RUNX1/AML1.

**Sequence similarities** Belongs to the peptidase C19 family. USP16 subfamily.  
Contains 1 UBP-type zinc finger.

**Domain** The UBP-type zinc finger binds 3 zinc ions that form a pair of cross-braced ring fingers encapsulated within a third zinc finger in the primary structure. It recognizes the C-terminal tail of free ubiquitin.

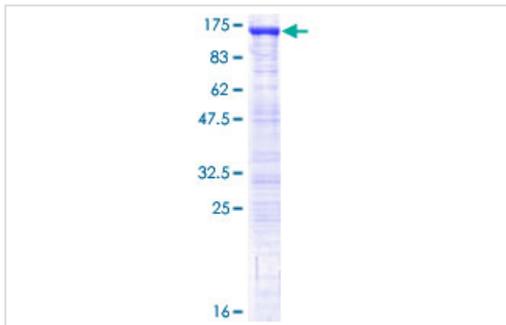
**Post-translational modifications** Phosphorylated at the onset of mitosis and dephosphorylated during the metaphase/anaphase transition. The phosphorylated form of the protein is also enzymatically active.

**Cellular localization** Nucleus.

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## Images

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ab161059 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human USP16 protein  
(ab161059)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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