

Recombinant human USP2 protein ab198439

2 Images

Description

Product name Recombinant human USP2 protein

Biological activity Specific activity:
8.9 pmole/min/μg.

Assay Conditions: The enzymatic reactions were conducted in duplicate at room temperature for 30 minutes in a 50 μl mixture containing 50 mM Tris pH 7.4, 1 mM DTT, 0.5 mM EDTA, 500 nM Ub-AMC, and various amount of USP2 in a volume of 50μl. Fluorescent signal was measured at excitation of 360 nm and emission at 460 nm after a 15 min incubation at 37°C.

Purity >= 34 % SDS-PAGE.
Affinity purified.

Expression system Baculovirus infected Sf9 cells

Accession **O75604**

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence

```
MDYKDDDDKSQLSSTLKRYTESARYTDAHYAKSGYGAYT
PSSYGANLAAS
LLEKEKLGFKPVPTSSFLTRPRTYGPSSLLDYDRGRPLLR
PDITGGGKRA
ESQTRGTERPLGSLSGSGFPYGVTTNCLSYLPINAYDQ
GVTLTQKLDS
QSDLARDFSSLRTSDSYRIDPRNLGRSPMLARTRKELCTL
QGLYQTASCP
EYLVDYLENYGRKGSASQVPSQAPPSRVPEIISPTYRPIGR
YTLWETGKG
QAPGPSRSSSPGRDGMNSKSAQGLAGLRNLGNTCFMNS
ILQCLSNTRCLR
DYCLQRLYMRDLHHGSNAHTALVEEFAKLIQTIWTSSPND
VVSPSEFKTQ
IQRYAPRFVGYNQDAQEFLRFLLDGLHNEVNRVTLRPKS
NPENLDHLPD
DEKGRQMWRKYLEREDSRIGDLFVGQLKSSLTCTDCGYC
```

STVFDPFWDLS
LPIAKRGYPEVTLMDCMRLFTKEDVLDGDEKPTCCRCRG
RKRCIKKFSIQ
RFPKILVLHLKRFSESRIKTSKLTTFVNFPLRDLDLREFASE
NTNHAVYN
LYAVSNHSGTTMGGHYTAYCRSPGTGEWHTFNDSSVTPM
SSSQVRTSDAYLLFYELASPPSRM

Predicted molecular weight	68 kDa including tags
Amino acids	2 to 605
Tags	DDDDK tag N-Terminus
Additional sequence information	NM_004205. 68 kDa including tag

Specifications

Our **Abpromise guarantee** covers the use of **ab198439** in the following tested applications.

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

Applications	SDS-PAGE Functional Studies
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.64% Tris HCl, 0.64% Sodium chloride, 0.017% Potassium chloride, 20% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol Buffer also includes 100 ng/μl DDDDK peptide This product is an active protein and may elicit a biological response in vivo, handle with caution.
------------------------------	--

General Info

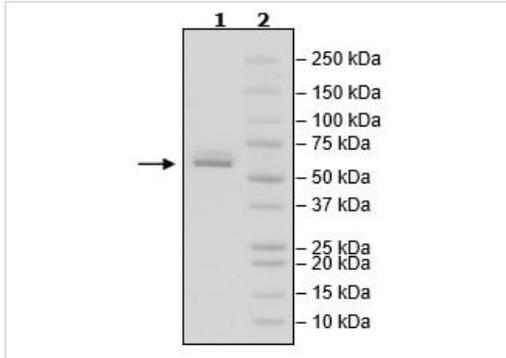
Function	Hydrolase that deubiquitinates polyubiquitinated target proteins such as MDM2, MDM4 and CCND1. Isoform 1 and isoform 4 possess both ubiquitin-specific peptidase and isopeptidase activities. Deubiquitinates MDM2 without reversing MDM2-mediated p53/TP53 ubiquitination and thus indirectly promotes p53/TP53 degradation and limits p53 activity. Has no deubiquitinase activity against p53/TP53. Prevents MDM2-mediated degradation of MDM4. Plays a role in the G1/S cell-cycle progression in normal and cancer cells. Plays a role in the regulation of myogenic differentiation of embryonic muscle cells.
Tissue specificity	Expressed in mesangial cells of the kidney and in different types of glomerulonephritides (at protein level).
Sequence similarities	Belongs to the peptidase C19 family. USP2 subfamily.
Domain	The different N-terminus extensions of isoform 1 and isoform 4 determine their respective subcellular localization and differential effect on myoblast fusion and accumulation of muscle-specific proteins. The different N-terminus extensions of isoform 1 and isoform 4 are not essential

for their catalytic activity.

Cellular localization

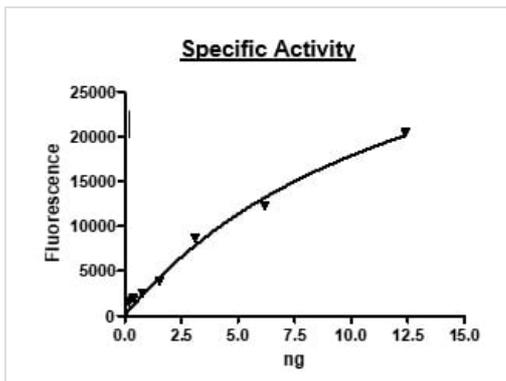
Nucleus and Cytoplasm. Cytoplasm > perinuclear region. Localizes in the spermatid head in late-elongating spermatids in the thin area between the outer acrosomal membrane and the plasma membrane.

Images



SDS-PAGE - Recombinant human USP2 protein (ab198439)

4-20% SDS-PAGE Coomassie staining Lane 1: 2 μ g USP2 Lane 2: Protein Marker MW: 69 kDa Purity: 80%



Functional Studies - Recombinant human USP2 protein (ab198439)

Activity assay of ab198439.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors