

Product datasheet

Recombinant human USP10 protein ab198669

2 Images

Description

Product name Recombinant human USP10 protein

Biological activity Specific Activity: 23 pmol/min/μg.

Assay Conditions:

Reaction was performed in 50 mM Tris, pH 7.4, 1 mM DTT, 0.5 mM EDTA, 500 nM Ub-AMC, and ab198669 in a 50 μL volume. Reaction was incubated at 37°C for 15 min. and fluorescent signal was measured at excitation = 340 nm, emission = 460 nm.

Purity >= 60 % SDS-PAGE.

Expression system Baculovirus infected Sf9 cells

Accession [Q14694](#)

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence ALHSPQYIFGDFSPDEFNQFFVTPRSSVELPPYSGTVL
 CGTQAVDKLPDG
 QEYQRIEFGVDEVIEPSDTLPRTPSYSISSTLNPQAPEFI
 LGCTASKITP
 DGITKEASYGSIDCQYPGSALALDGSSNVEAEVLEND
 GVSGGLGQRERKK
 KKKRPPGYYSYKDGDDSSISTEALVNGHANSVAVPNS
 VSAEDAEFMGDMP
 PSVTPRTCNSPQNSTDSVSDIVPDSPPFGALGSDTRT
 AGQPEGGPGADFG
 QSCFPAEAGRDTLSRTAGAQCPCVGTDTTENLGVANG
 QILESSGEGTATNG
 VELHTTESIDLDPKPEASPPADGTGSASGTLPVSQ
 PKSWASLFHDSKP
 SSSSPVAYVETKYSPPAISPLVSEKQVEVKEGLVPVS
 EDPVAIKIAELLE
 NVTLIHKPVSLQPRGLINKGNWCYINATLQALVACPPMY
 HLMKFIPLYSK
 VQRPCTSTPMIDSFVRLMNEFTNMPVPPKPRQALGDK

MRDIRPGAAFEP
TYIYRLLTVNKSSLSEKGRQEDAE EYLGFILNGLHEEML
NLKKLLSPSNE
KLTISNGPKNHSVNEEEQEEQGESEDEWEQV/GPRN
KTSVTRQADVFQTP
ITGIFGGHIRSVVYQQSSKESATLQPFRTLQLDIQSDKIR
TVQDALESLV
ARESVQGYTTTKQVEVEISRRVTLEKLPVVLVHLKRF
VYEKTGGCQKLI
KNIEYPVDLEISKELLSPGVKNKNFKCHRTYRLFVAVVYH
HGNSATGGHYT
TDVFQIGLNGWLRIDDQTVKVINQYQVVKPTAERTAYLL
YYRRVDLL

Predicted molecular weight	88 kDa including tags
Amino acids	2 to 798
Tags	DDDDK tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab198669** 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
Additional notes	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Preparation and Storage

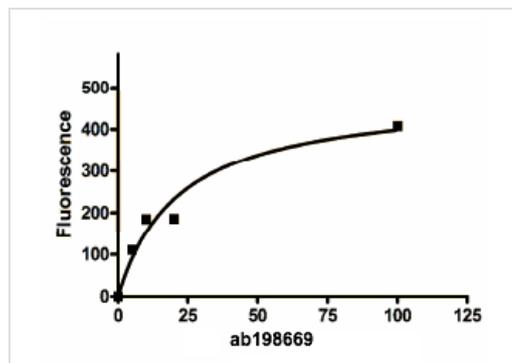
Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.71% Tris HCl, 0.72% Sodium chloride, 0.02% Potassium chloride, 10% Glycerol, 0.05% DTT Contains 90 µg/mL DDDDK peptide This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Function	Hydrolase that can remove conjugated ubiquitin from target proteins such as p53/TP53, SNX3 and CFTR. Acts as an essential regulator of p53/TP53 stability: in unstressed cells, specifically deubiquitinates p53/TP53 in the cytoplasm, leading to counteract MDM2 action and stabilize p53/TP53. Following DNA damage, translocates to the nucleus and deubiquitinates p53/TP53, leading to regulate the p53/TP53-dependent DNA damage response. Does not deubiquitinate MDM2. Deubiquitinates CFTR in early endosomes, enhancing its endocytic recycling.
Tissue specificity	Widely expressed.

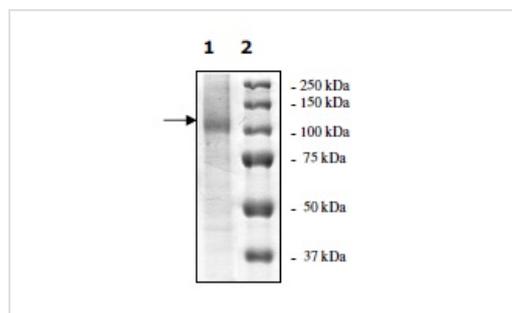
Sequence similarities	Belongs to the peptidase C19 family. USP10 subfamily.
Post-translational modifications	Phosphorylated by ATM following DNA damage, leading to stabilization and translocation to the nucleus.
Cellular localization	Cytoplasm. Nucleus. Early endosome. Cytoplasmic in normal conditions. After DNA damage, translocates to the nucleus following phosphorylation by ATM.

Images



Example of specific activity of ab198669.

Functional Studies - Recombinant human USP10 protein (ab198669)



10% SDS-PAGE with Coomassie staining: 3 µg ab198669.

SDS-PAGE - Recombinant human USP10 protein (ab198669)

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