

Product datasheet

Recombinant human USP2 protein ab198439

2 Images

Description

Product name	Recombinant human USP2 protein
Biological activity	Specific activity: 247 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 USP2 in a 50 μL reaction. Reaction was incubated at 37°C for 15 min. and fluorescent signal was measured at excitation =340 nm, emission =460 nm.
Purity	>= 34 % SDS-PAGE.
Expression system	Baculovirus infected Sf9 cells
Accession	O75604
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	68 kDa including tags
Amino acids	2 to 605
Tags	DDDDK tag N-Terminus
Additional sequence information	NM_004205.

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
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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

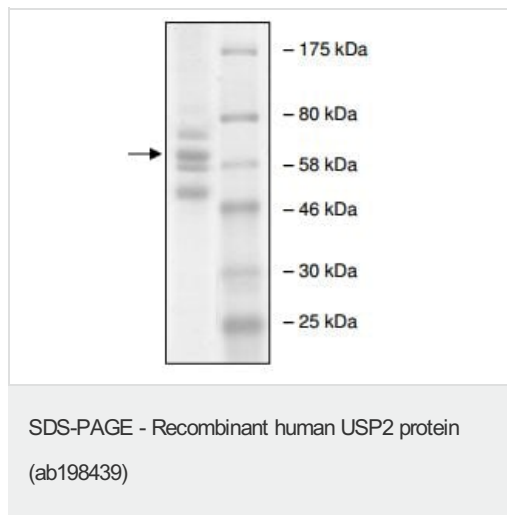
Buffer also includes 80 ng/μl DDDDK peptide

This product is an active protein and may elicit a biological response in vivo, handle with caution.

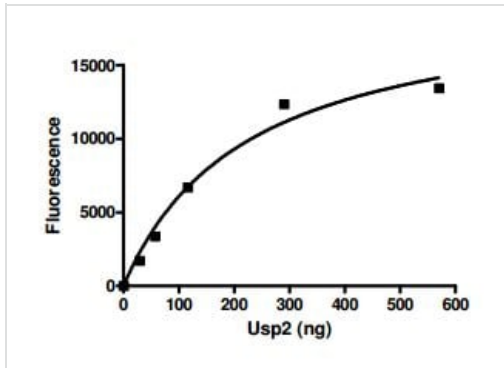
General Info

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



10% SDS-PAGE analysis of 1.8 μg ab198439 with Coomassie staining.



Activity assay of ab198439.

Functional Studies - Recombinant human USP2 protein (ab198439)

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

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