

# Recombinant human UCHL3 protein ab103502

1 Image

## Description

<b>Product name</b>	Recombinant human UCHL3 protein
<b>Biological activity</b>	<p>Specific activity: &gt;3,000 pmole/min/ug. Measured by the hydrolysis of Ubiquitin-AMC at pH 8.0, at 37°C.</p> <p><b>Activity Assay:</b></p> <p>Prepare a 100ul of recombinant UCH-L3 protein with various concentrations (0.48ng, 0.9ng) in assay buffer and equilibrate to 37°C for 10 minutes. (Assay buffer: 50mM Tris-HCl, 0.5 mM EDTA, 1 mM DTT, 0.1 mg/ml Ovalbumin, pH 8.0.)</p> <p>Add 50ul of 1uM Ubiquitin-AMC.</p> <p>Read at excitation wavelengths 355nm and emission 460nm for 5 minutes.</p> <ul style="list-style-type: none"> <li>- Ubiquitin-AMC</li> <li>- 96 Well Polystyrene Microplate, black</li> <li>- Fluorescent plate reader (PerkinElmer, VICTOR X3)</li> </ul> <p>Specific activity: &gt;3,000 pmole/min/ug. Measured by the hydrolysis of Ubiquitin-AMC at pH 8.0, at 37°C.</p> <p><b>Activity Assay:</b></p> <p>Prepare a 100ul of recombinant UCH-L3 protein with various concentrations (0.48ng, 0.9ng) in assay buffer and equilibrate to 37°C for 10 minutes. (Assay buffer: 50mM Tris-HCl, 0.5 mM EDTA, 1 mM DTT, 0.1 mg/ml Ovalbumin, pH 8.0.)</p> <p>Add 50ul of 1uM Ubiquitin-AMC.</p> <p>Read at excitation wavelengths 355nm and emission 460nm for 5 minutes.</p> <ul style="list-style-type: none"> <li>- Ubiquitin-AMC</li> <li>- 96 Well Polystyrene Microplate, black</li> <li>- Fluorescent plate reader (PerkinElmer, VICTOR X3)</li> </ul>
<b>Purity</b>	<p>&gt; 95 % SDS-PAGE.</p> <p>ab103502 purified by using anion-exchange chromatography (DEAE sepharose resin) and gel-filtration chromatography (Sephacryl S-200) with 20mM Tris pH 7.5, 2mM EDTA.</p>
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P15374</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MGSSHHHHHHSSGLVPRGSHMEGQRWLPLEANPEVTN

QFLKQLGLHPNWQ  
 FVDVYGMDPELLSMVPRPVCAVLLLPITEKYEVFRTEEE  
 EKIKSQGQDV  
 TSSVYFMKQTISNACGTIGLIHAIANNKDKMHFESGSTLKKF  
 LEESVSMS  
 PEERARYLENYDAIRVTHETSAHEGQTEAPSIDEKVDLHFI  
 ALVHVDGHL  
 YELDGRKPFPINHGETSDETLLDAIEVCKKFMERDPDEL  
 RFNAIALSAA

<b>Predicted molecular weight</b>	28 kDa including tags
<b>Amino acids</b>	1 to 230
<b>Tags</b>	His tag N-Terminus

## Specifications

Our **Abpromise guarantee** covers the use of **ab103502** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Mass spectrometry</b>	MALDI-TOF
<b>Form</b>	Liquid

## Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol  This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

<b>Function</b>	Deubiquitinating enzyme (DUB) that controls levels of cellular ubiquitin through processing of ubiquitin precursors and ubiquitinated proteins. Thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of either ubiquitin or NEDD8. Has a 10-fold preference for Arg and Lys at position P3". Deubiquitinates ENAC in apical compartments, thereby regulating apical membrane recycling. Indirectly increases the phosphorylation of IGFIR, AKT and FOXO1 and promotes insulin-signaling and insulin-induced adipogenesis. Required for stress-response retinal, skeletal muscle and germ cell maintenance. May be involved in working memory.
<b>Tissue specificity</b>	Highly expressed in heart, skeletal muscle, and testis.
<b>Sequence similarities</b>	Belongs to the peptidase C12 family.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Cytoplasm.

## Images

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15% SDS-PAGE analysis of 3µg ab103502.

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

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