

Product datasheet

Recombinant human UCHL3 protein ab103502

1 Image

Description

Product name	Recombinant human UCHL3 protein
Biological activity	<p>Specific activity: >3,000 pmole/min/ug. Measured by the hydrolysis of Ubiquitin-AMC at pH 8.0, at 37°C.</p> <p>Activity Assay:</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"> - Ubiquitin-AMC - 96 Well Polystyrene Microplate, black - Fluorescent plate reader (PerkinElmer, VICTOR X3)
Purity	<p>> 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>
Expression system	Escherichia coli
Accession	P15374
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MGSSHHHHHSSGLVPRGSHMEGQRWLPLEANPEVTN QFLKQLGLHPNWQ FVDVYGMDPELLSMVPRPVCAVLLLLFPITEKYEVFRTEEE EKIKSQGDV TSSVYFMKQTISNACGTIGLIHAIANNKDKMHFESGSTLKKF LEESVSMS PEERARYLENYDAIRVTHETSAHEGQTEAPSIDEKVDLHFI ALVHVDGHL YELDGRKPFPINHGETSDETLLEDAIEVCKKFMERDPDEL RFNAIALSAA</p>
Predicted molecular weight	28 kDa including tags
Amino acids	1 to 230

Tags 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.

Applications Functional Studies

SDS-PAGE

Mass spectrometry MALDI-TOF

Form Liquid

Preparation and Storage

Stability and Storage 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.

General Info

Function 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 IGF1R, 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.

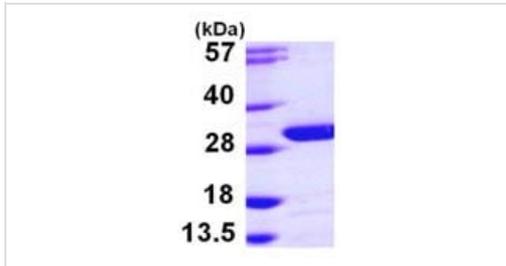
Tissue specificity Highly expressed in heart, skeletal muscle, and testis.

Sequence similarities Belongs to the peptidase C12 family.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Cytoplasm.

Images



15% SDS-PAGE analysis of 3µg ab103502.

SDS-PAGE - Recombinant human UCHL3 protein
(ab103502)

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

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