

Datasheet for ABIN7198558
UCHL1 Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	UCHL1
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This UCHL1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat UCHL1/PGP9.5 Protein (His Tag)(Active)
Sequence:	Glu 2-Ala 223
Characteristics:	A DNA sequence encoding the rat UCHL1 (Q00981) (Glu 2-Ala 223) was fused with a polyhistidine tag at the N-terminus.
Purity:	> 97 % as determined by SDS-PAGE
Biological Activity Comment:	Measured by the hydrolysis of UbiquitinAMC. The specific activity is >100 pmoles/min/µg.

Target Details

Target:	UCHL1
Alternative Name:	UCHL1/PGP9.5 (UCHL1 Products)
Background:	Background: Ubiquitin carboxyl-terminal hydrolase isozyme L1, also known as UCH-L1,

Target Details

Ubiquitin thioesterase L1, PGP9.5 and UCHL1, is a deubiquitinating enzyme with important functions in recycling of ubiquitin. Regulated proteolysis by the ubiquitin pathway has been implicated in control of the cell cycle, transcriptional activation, cell fate and growth, and synaptogenesis. The ubiquitin-proteasome system is involved in synaptic plasticity and is proposed to be part of a molecular switch that converts short-term synaptic potentiation to long-term changes in synaptic strength. UCHL1 is found in neuronal cell bodies and processes throughout the neocortex (at protein level). It is expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. UCHL1 is weakly expressed in ovary. UCHL1 is a ubiquitin-protein hydrolase. It is involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. UCHL1 also binds to free monoubiquitin and may prevent its degradation in lysosomes. The homodimer of UCHL1 may have ATP-independent ubiquitin ligase activity. UCHL1 dysfunction has been associated with neurodegeneration in Parkinson's, Alzheimer's, and Huntington's disease patients. Reduced UCHL1 function may jeopardize the survival of CNS neurons.

Synonym: UCHL1

Molecular Weight: 26.2 kDa

UniProt: [Q00981](#)

Pathways: [Feeding Behaviour](#)

Application Details

Restrictions: For Research Use only

Handling

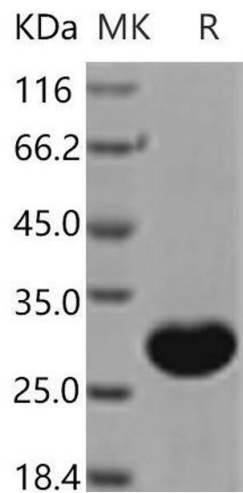
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.