

Datasheet for 009-001-E52S**UCHL1 protein-HIS Epitope****Overview**

Description:	UCHL1 recombinant protein-HIS Epitope - 009-001-E52S
Item No.:	009-001-E52S
Size:	20 µg
Reactivity:	H. sapiens (Human)
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	UCHL1 is a member of the peptidase C12 family and a thiol protease that hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin to generate the ubiquitin monomer. UCHL1 is expressed in the neurons and in cells of the diffuse neuroendocrine system. Mutations in UCHL1 may be associated with Parkinson disease (1). The ligase and hydrolase activities of UCHL1 may play roles in proteasomal protein degradation, a process critical for neuronal health. Inhibition of UCHL1 in mouse hippocampal slices reduces normal synaptic function and long-term potentiation. PKA-CREB pathway mediates the effects of UCHL1 on Amyloid-beta-induced synaptic dysfunction and Uchl1 also reversed the inhibition of CREB phosphorylation induced by Amyloid-beta (2). UCHL1 Protein is ideal for investigators involved in Signaling Proteins, Ubiquitin Proteins, Angiogenesis, Apoptosis/Autophagy, Cancer, Cell Cycle, Cellular Stress, Inflammation, Invasion/Metastasis, and Neurobiology research.
Synonyms:	PARK5, PGP 9.5, PGP9.5, PGP95, Uch-L1, Ubiquitin carboxyl-terminal hydrolase isozyme L5, Short name=UCH-L5, Ubiquitin C-terminal hydrolase UCH37, Ubiquitin thioesterase L5, UCHL5, UCH37, AD-019, CGI-70
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	UCHL5
Reactivity:	H. sapiens (Human)

Purity/Specificity: Recombinant full-length human UCHL1 was expressed by E. coli cells using an N-terminal his epitope. The purity was determined to be >95% by densitometry.

Relevant Links: • [NCBI - NM_001199261](#)

Application Details

Application Note: UCHL1 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. UCHL1 Protein is suitable for use in Western Blot. Expect a band approximately ~25kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 0.2 µg/µl

Buffer: See application note.

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

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