# UCHL1 Peptide - C-Terminal Region Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | UCHL1, Blocking Peptide |
| **Full Product Name** | UCHL1 Peptide - C-terminal region |
| **Product Gene Name** | UCHL1 blocking peptide |
| **Product Synonym Gene Name** | PARK5; PGP9.5; PGP95; Uch-L1; PGP 9.5 |
| **Sequence** | HLYELDGRMP FPVNHGASSE DTLLKDAAKV CREFTEREQG EVRFSAVALC |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Preparation and Storage** | Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | UCHL1 peptide (MBS3239073) is used for blocking the activity of UCHL1 antibody (MBS3214135) |
| **Molecular Weight** | 25kDa |
| **OMIM** | 191342 |
| **Product Categories/Family for UCHL1 blocking peptide** | Peptide |
| **Applications Tested/Suitable for UCHL1 blocking peptide** | Immunohistochemistry (IHC), Western Blot (WB) |
| **Related Product Information for UCHL1 blocking peptide** | This is a synthetic peptide designed for use in combination with anti-UCHL1 Antibody, made<br><br>Target Description: The protein encoded by this gene belongs to the peptidase C12 family. This enzyme is a thiol protease that hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. This gene is specifically expressed in the neurons and in cells of the diffuse neuroendocrine system. Mutations in this gene may be associated with Parkinson disease. |
| **Other Notes** | Small volumes of UCHL1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for UCHL1 purchase** | MBS3239073 is a blocking peptide targeting UCHL1. Also known as UCHL1 Peptide - C-terminal region. Reactive in Human. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UCHL1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 21361091 |
| **NCBI GeneID** | 7345 |
| **NCBI Accession #** | NP_004172 |
| **UniProt Primary Accession #** | P09936 |
| **UniProt Related Accession #** | P09936 |
| **GenBank Nucleotide #** | NM_004181 |
| **NCBI Official Full Name** | ubiquitin carboxyl-terminal hydrolase isozyme L1 |

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| **NCBI Official Synonym Full Names** | ubiquitin C-terminal hydrolase L1 |
| **NCBI Official Symbol** | UCHL1 |
| **NCBI Official Synonym Symbols** | NDGOA; PARK5; PGP95; SPG79; PGP9.5; Uch-L1; HEL-117; PGP 9.5; HEL-S-53 |
| **UniProt Protein Name** | Ubiquitin carboxyl-terminal hydrolase isozyme L1 |
| **UniProt Synonym Protein Names** | Neuron cytoplasmic protein 9.5; PGP 9.5; PGP9.5; Ubiquitin thioesterase L1 |
| **Protein Family** | Ubiquitin carboxyl-terminal hydrolase |
| **UniProt Gene Name** | UCHL1 |
| **UniProt Synonym Gene Names** | UCH-L1; PGP9.5 |
| **UniProt Entry Name** | UCHL1_HUMAN |
| **NCBI Protein Information** | ubiquitin carboxyl-terminal hydrolase isozyme L1 |
| **NCBI Summary for UCHL1** | The protein encoded by this gene belongs to the peptidase C12 family. This enzyme is a thiol protease that hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. This gene is specifically expressed in the neurons and in cells of the diffuse neuroendocrine system. Mutations in this gene may be associated with Parkinson disease.[provided by RefSeq, Sep 2009] |
| **UniProt Comments for UCHL1** | UCHL1: Ubiquitin-protein hydrolase 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. Also binds to free monoubiquitin and may prevent its degradation in lysosomes. The homodimer may have ATP-independent ubiquitin ligase activity. Monomer. Homodimer. Interacts with SNCA. Interacts with COPS5. Found in neuronal cell bodies and processes throughout the neocortex. Expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. Weakly expressed in ovary. Down-regulated in brains from Parkinson disease and Alzheimer disease patients. Belongs to the peptidase C12 family.<br><br>Protein type: Cell development/differentiation; EC 3.4.19.12; Ligase; Protease; Ubiquitin conjugating system<br><br>Chromosomal Location of Human Ortholog: 4p14<br><br>Cellular Component: nucleoplasm; endoplasmic reticulum membrane; cell soma; axon; cytoplasm; plasma membrane; cytosol<br><br>Molecular Function: protein binding; omega peptidase activity; ubiquitin binding; cysteine-type endopeptidase activity; ubiquitin-specific protease activity; alpha-2A adrenergic receptor binding; ligase activity<br><br>Biological Process: proteasomal ubiquitin-dependent protein catabolic process; cell proliferation; negative regulation of MAP kinase activity; protein deubiquitination; axon transport of mitochondrion; axon target recognition; eating behavior; neuromuscular process; sensory perception of pain; muscle fiber development; adult walking behavior<br><br>Disease: Neurodegeneration With Optic Atrophy, Childhood-onset; Parkinson Disease 5, Autosomal Dominant |
| **Research Articles on UCHL1** | **1.** serum level not significantly elevated in newborns at risk for hypoxic ischemic encephalopathy but with normal EEGs |
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