UCHL1 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	UCHL1, Blocking Peptide
Full Product Name	UCHL1 Antibody (N-term) Blocking peptide
Product Gene Name	UCHL1 blocking peptide
Product Synonym Names	Ubiquitin carboxyl-terminal hydrolase isozyme L1; UCH-L1; 6---; Neuron cytoplasmic protein 95; PGP 95; PGP95; Ubiquitin thioesterase L1; UCHL1
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the Park5 region of human UCHL1 (Park5). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	UCHL1 peptide (MBS9224560) is used for blocking the activity of UCHL1 antibody (MBS9212405)
Molecular Weight	24,824 Da
OMIM	191342
Cellular Location	Cytoplasm. Endoplasmic reticulum membrane; Lipid-anchor. Note: About 30% of total UCHL1 is associated with membranes in brain
Tissue Location	Found in neuronal cell bodies and processes throughout the neocortex (at protein level). 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
Related Product Information for UCHL1 blocking peptide	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.
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	MBS9224560 is a blocking peptide targeting UCHL1. Also known as UCHL1 Antibody (N-term) Blocking peptide.

ADDITIONAL DETAILS

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

NCBI GI #	136681
NCBI GeneID	7345
NCBI Accession #	P09936.2
UniProt Primary Accession #	P09936
UniProt Secondary Accession #	Q4W5K6; Q71UM0
UniProt Related Accession #	P09936
NCBI Official Full Name	Ubiquitin carboxyl-terminal hydrolase isozyme L1

NCBI Official Synonym Full Names	ubiquitin C-terminal hydrolase L1
NCBI Official Symbol	UCHL1
NCBI Official Synonym Symbols	NDGOA; PARK5; PGP95; 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. Protein type: Ligase; EC 3.4.19.12; Protease; Cell development/differentiation; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 4p14 Cellular Component: cytoplasm; nucleoplasm; plasma membrane Molecular Function: alpha-2A adrenergic receptor binding; cysteine-type endopeptidase activity; omega peptidase activity; protein binding; ubiquitin binding; ubiquitin protein ligase binding; ubiquitin-specific protease activity Biological Process: negative regulation of MAP kinase activity; protein deubiquitination; regulation of macroautophagy Disease: Neurodegeneration With Optic Atrophy, Childhood-onset; Parkinson Disease 5, Autosomal Dominant
Research Articles on UCHL1	**1.** Serum UCH-l1 levels serve as a novel biomarker for neuronal damage from white matter lesions.
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