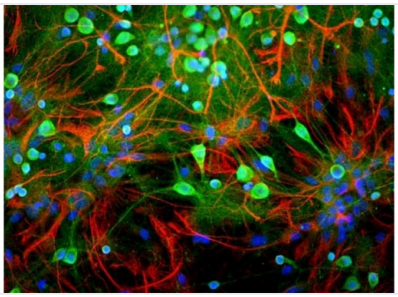
UCHL1 Antibody – Chicken Polyclonal

PRODUCT OVERVIEW

Product Name	UCHL1, Polyclonal Antibody
Full Product Name	Chicken polyclonal UCHL1 antibody
Product Gene Name	anti-UCHL1 antibody
Product Synonym Names	UCHL1 antibody
Clonality	Polyclonal
Host	Chicken
Form/Format	Supplied in liquid form in PBS and 10 mM NaN3
Molecular Weight	24,824 Da
OMIM	AC095043 Genomic DNA
3D Structure	ModBase 3D Structure for P09936
Product Categories/Family for anti-UCHL1 antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-UCHL1 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-UCHL1 antibody	WB: 1:2,500 IF: 1:500
Related Product Information for anti-UCHL1 antibody	MBS5307651 is an antibody targeting UCHL1. Also known as Chicken polyclonal UCHL1 antibody. Host: Chicken.
Other Notes	Small volumes of anti-UCHL1 antibody 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.



Immunofluorescence (IF) of anti-UCHL1 antibody
Rat mixed neuron/glial cultures stained with UCHL1 antibody (green) and rabbit GFAP antibody

ADDITIONAL DETAILS

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

NCBI GI #	21361091
NCBI GeneID	7345

NCBI Accession #	NP_004172.2
UniProt Primary Accession #	P09936
UniProt Secondary Accession #	Q4W5K6; Q71UM0
UniProt Related Accession #	P09936
GenBank Nucleotide #	NM_004181.4
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; 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
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: Cell development/differentiation; EC 3.4.19.12; Ligase; Protease; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 4p13 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.** cytoplasmic accumulation of P53 was strongly associated with the unmethylated UCHL1 profile (P = 0.006), supporting the relationship between these two proteins in sporadic colorectal cancer
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