Ubiquitin Carboxyl Terminal Hydrolase L1 (UCHL1) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Ubiquitin Carboxyl Terminal Hydrolase L1 (UCHL1), ELISA Kit
Full Product Name	Chicken Ubiquitin Carboxyl Terminal Hydrolase L1 ELISA Kit
Product Gene Name	UCHL1 elisa kit
Species Reactivity	Chicken
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	24,824 Da
OMIM	191342
3D Structure	ModBase 3D Structure for P09936
Related Product Information for UCHL1 elisa kit	MBS095653 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Ubiquitin Carboxyl Terminal Hydrolase L1 (UCHL1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing UCHL1. The ELISA analytical biochemical technique of the MBS095653 kit is based on UCHL1 antibody-UCHL1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect UCHL1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, UCHL1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of UCHL1 elisa kit 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.

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 carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
NCBI Official Symbol	UCHL1
NCBI Official Synonym Symbols	NDGOA; PARK5; PGP95; PGP9.5; Uch-L1; HEL-117; PGP 9.5
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; ubiquitin thioesterase L1; epididymis luminal protein 117; neuron cytoplasmic protein 9.5; ubiquitin C-terminal hydrolase
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; Ubiquitin conjugating system; EC 3.4.19.12; Ligase; Protease Chromosomal Location of Human Ortholog: 4p14 Cellular Component: nucleoplasm; endoplasmic reticulum membrane; cell soma; axon; cytoplasm; plasma membrane; cytosol Molecular Function: ubiquitin binding; omega peptidase activity; protein binding; cysteine-type endopeptidase activity; ubiquitin-specific protease activity; alpha-2A adrenergic receptor binding; ligase activity Biological Process: negative regulation of MAP kinase activity; proteasomal ubiquitin-dependent protein catabolic process; cell proliferation; protein deubiquitination; axon transport of mitochondrion; axon target recognition; eating behavior; neuromuscular process; sensory perception of pain; muscle fiber development; adult walking behavior Disease: Neurodegeneration With Optic Atrophy, Childhood-onset; Parkinson Disease 5, Autosomal Dominant
Research Articles on UCHL1	**1.** Serum levels of UCH-L1 appear to have potential clinical utility in providing valuable information about poisoning severity and outcome after CO poisoning
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