

**UCHL1 Antibody (C-term)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AW5233**

**Specification**

**UCHL1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P09936</a>
Other Accession	<a href="#">Q00981</a> , <a href="#">Q6SEG5</a> , <a href="#">Q9R0P9</a> , <a href="#">Q60HC8</a> , <a href="#">P23356</a>
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	H=24;M=24;Rat=24 KDa
Isotype	IgG1
Antigen Source	HUMAN

**UCHL1 Antibody (C-term) - Additional Information**

**Gene ID** 7345

**Antigen Region**  
185-214

**Other Names**

UCHL1;Ubiquitin carboxyl-terminal hydrolase isozyme L1; Ubiquitin carboxyl-terminal hydrolase isozyme L1; Neuron cytoplasmic protein 9.5; Ubiquitin carboxyl-terminal hydrolase isozyme L1; PGP 9.5; Ubiquitin carboxyl-terminal hydrolase isozyme L1; Ubiquitin thioesterase L1

**Dilution**

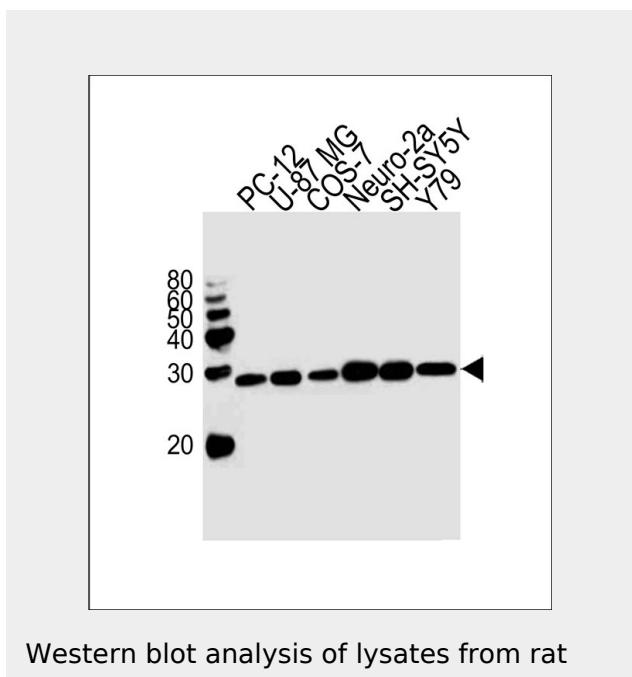
WB~1:1000

**Target/Specificity**

This UCHL1 Monoclonal antibody is generated from mouses immunized with a KLH conjugated synthetic peptide selected from the 185-214 region of human UCHL1.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.



Western blot analysis of lysates from rat PC-12, U-87 MG, COS-7, mouse Neuro-2a, SH-SY5Y, Y79 cell line (from left to right), using UCHL1 Antibody (C-term) (Cat. #AW5233). AW5233 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

**UCHL1 Antibody (C-term) - Background**

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.

**UCHL1 Antibody (C-term) - References**

Boudreax D.A., et al. Proc. Natl. Acad. Sci. U.S.A. 107:9117-9122(2010).  
 Hillier L.W., et al. Nature 434:724-731(2005).  
 Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Day I.N.M., et al. Biochem. J.  
268:521-524(1990).  
Choi J., et al. J. Biol. Chem.  
279:13256-13264(2004).

**Precautions**

UCHL1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**UCHL1 Antibody (C-term) - Protein Information****Name** UCHL1**Function**

Ubiquitin-protein hydrolase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins (Probable). This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin (PubMed:<a href="http://www.uniprot.org/citations/9774100" target="\_blank">9774100</a>, PubMed:<a href="http://www.uniprot.org/citations/8639624" target="\_blank">8639624</a>, PubMed:<a href="http://www.uniprot.org/citations/12408865" target="\_blank">12408865</a>, PubMed:<a href="http://www.uniprot.org/citations/23359680" target="\_blank">23359680</a>). Also binds to free monoubiquitin and may prevent its degradation in lysosomes (By similarity). The homodimer may have ATP-independent ubiquitin ligase activity (PubMed:<a href="http://www.uniprot.org/citations/12408865" target="\_blank">12408865</a>).

**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.

## UCHL1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)