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UCHL1 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM1959B

Specification

UCHL1 Antibody - Product Information

Application	WB,E
Primary Accession	P09936
Other Accession	NP_004172.2
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Calculated MW	24824

UCHL1 Antibody - Additional Information

Gene ID 7345

Other Names
Ubiquitin carboxyl-terminal hydrolase isozyme L1, UCH-L1, 6---, Neuron cytoplasmic protein 95, PGP 95, PGP95, Ubiquitin thioesterase L1, UCHL1

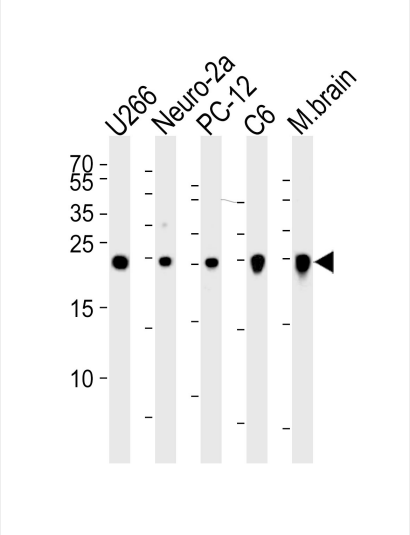
Target/Specificity
This UCHL1 monoclonal antibody is generated from mouse immunized with UCHL1 recombinant protein.

Dilution
WB~~1:120~1000

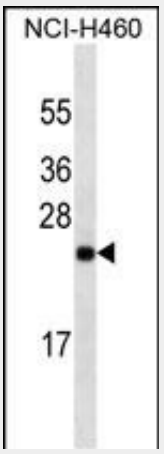
Format
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

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.

Precautions
UCHL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



Western blot analysis of lysates from U266, mouse Neuro-2a, rat PC-12, C6 cell line and mouse brain tissue lysate(from left to right), using UCHL1 Antibody(Cat. #AM1959b). AM1959b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35µg per lane.



UCHL1 Antibody(Cat. #AM1959b) western blot analysis in NCI-H460 cell line lysates (35µg/lane).This demonstrates the UCHL1 antibody detected the UCHL1 protein (arrow).

UCHL1 Antibody - 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:9774100, PubMed:8639624, PubMed:12408865, PubMed:23359680). Also binds to free monoubiquitin and may prevent its degradation in lysosomes (By similarity). The homodimer may have ATP-independent ubiquitin ligase activity (PubMed:12408865).

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 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

UCHL1 Antibody - Background

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.

UCHL1 Antibody - References

Martins-de-Souza, D., et al. J Psychiatr Res 44(14):989-991(2010)
Hussain, S., et al. Leukemia 24(9):1641-1655(2010)
Ma, Y., et al. J. Cell. Biochem. 110(6):1512-1519(2010)
Wu, Y.R., et al. Clin. Chim. Acta 411 (13-14), 955-958 (2010) :
Li, L., et al. Clin. Cancer Res. 16(11):2949-2958(2010)

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture