

Rabbit anti-Mouse UCHL1 Monoclonal Antibody | anti-UCHL1 antibody

Recombinant Anti-UCHL1 Antibody, Rabbit Monoclonal

CATALOG # AAA257208	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunoprecipitation, Western Blot
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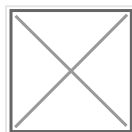
PRODUCT SYNONYMS

UCHL1; Monoclonal Antibody; Recombinant Anti-UCHL1 Antibody; Rabbit Monoclonal; UCHL1 Antibody; Rabbit MAb; ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase); Anti-AW822034 Antibody; Anti-C88048 Antibody; Anti-gad Antibody; Anti-PGP9.5 Antibody; Anti-R75593 Antibody; Anti-UCH-L1 Antibody; Anti-UCHL-1 Antibody; anti-UCHL1 antibody

PRODUCT SPECIFICATIONS

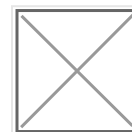
Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	011
Specificity	Mouse UCHL1. Has cross-reactivity in ELISA with Human UCHL1, Human UCHL3, Rat UCHL1 Has cross-reactivity in ELISA with Human UCHL1, Human UCHL3, Rat UCHL1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-UCHL1 antibody	IP (Immunoprecipitation), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse UCHL1 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse UCHL1 (rM UCHL1).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

Mouse UCHL1 was immunoprecipitated using: Lane A: 0.5 mg 293T Whole Cell Lysate; Lane B: 0.5 mg U87MG Whole Cell Lysate; 2 uL anti-Mouse UCHL1 rabbit monoclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-Mouse UCHL1 rabbit monoclonal antibody, at 1:200 dilution. Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 25 kDa. Observed band size: 25 kDa.



WB (Western Blot)

Anti-UCHL1 rabbit monoclonal antibody at 1:500 dilution. Lane A: 293T Whole Cell Lysate; Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG H&L (DyLight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 25 kDa. Observed band size: 27 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-UCHL1 antibody	Ubiquitin carboxyl-terminal hydrolase isozyme L1, also known as UCH-L1, Ubiquitin thioesterase L1, PGP9.5 and UCHL1, is a deubiquitinating enzyme with important functions in recycling of ubiquitin. Regulated proteolysis by the ubiquitin pathway has been implicated in control of the cell cycle, transcriptional activation, cell fate and growth, and synaptogenesis. The ubiquitin-proteasome system is involved in synaptic plasticity and is proposed to be part of a molecular switch that converts short-term synaptic potentiation to long-term changes in synaptic strength. UCHL1 is found in neuronal cell bodies and processes throughout the neocortex (at protein level). It is expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. UCHL1 is weakly expressed in ovary. UCHL1 is a ubiquitin-protein hydrolase. It is 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. UCHL1 also binds to free monoubiquitin and may prevent its degradation in lysosomes. The homodimer of UCHL1 may have ATP-independent ubiquitin ligase activity. UCHL1 dysfunction has been associated with neurodegeneration in Parkinson's, Alzheimer's, and Huntington's disease patients. Reduced UCHL1 function may jeopardize the survival of CNS neurons.
References	Wada H., et al., 1998, Biochem. Biophys. Res. Commun. 251:688-92. Choi J., et al., 2004, J. Biol. Chem. 279:13256-64. Lombardino, A.2005, et al., J.Proc Natl Acad Sci.USA102 (22):8036-41 Okochi-Takada, E. et al., 2006, Int J Cancer. 119 (6):1338-44. Zetterberg, M. et al., 2010, Mol Neurodegener 5 :11.

NCBI AND UNIPROT INFORMATION

NCBI GI #	188219614
NCBI GeneID	22223
NCBI Accession #	NP_035800.2
NCBI GenBank Nucleotide #	NM_011670.2
UniProt Accession #	Q9R0P9; Q9R122
Molecular Weight	24,838 Da
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase isozyme L1
NCBI Official Synonym Full Names	ubiquitin carboxy-terminal hydrolase L1
NCBI Official Symbol	Uchl1
NCBI Official Synonym Symbols	gad; C88048; PGP9.5; R75593; UCH-L1; UCHL-1; PGP 9.5; AW822034
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase isozyme L1
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase isozyme L1
UniProt Gene Name	Uchl1
UniProt Synonym Gene Names	UCH-L1; PGP9.5
UniProt Entry Name	UCHL1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/uchl1-antibody-clone-011-immunoprecipitation-western-blot-elisa/257208>