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PRODUCT DATASHEET

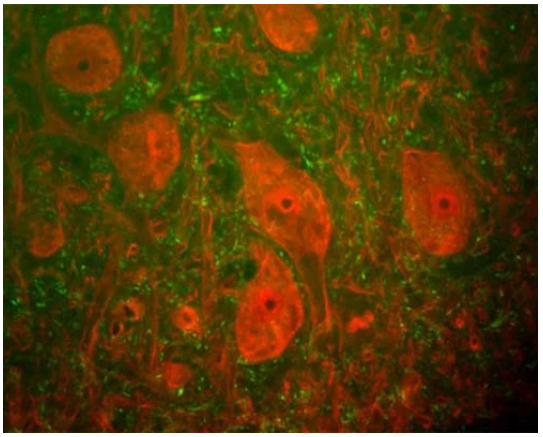
Anti-Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCHL1) Antibody

Product Details

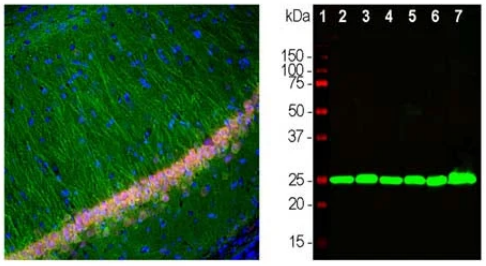
Available Variants	100 µg (SKU:M-1407-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	BH7
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	ICC, IHC, WB
Dilution Ranges	WB: 1:10000-1:20000 IHC: 1:1000-1:5000 ICC: 1:1000-1:5000
Species Reactivity	Bovine, Human, Mouse, Pig, Rat
Immunogen	Recombinant full length human Ubiquitin C Terminal Hydrolase 1 (UCHL1) purified from E. coli.
Specificity	The specificity of this antibody has been confirmed by WB. This antibody detects ~24 kDa UCHL1 enzyme. Suitable control tissue is rat spinal cord, brain, SHSY-5Y or HEK293 cell extract. Hu, rat, Bov.
Molecular Weight	24 kDa
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any

	insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
UniProt ID	P09936 UniProt Summary: Deubiquitinase that plays a role in the regulation of several processes such as maintenance of synaptic function, cardiac function, inflammatory response or osteoclastogenesis. Abrogates the ubiquitination of multiple proteins including WWTR1/TAZ, EGFR, HIF1A and beta-site amyloid precursor protein cleaving enzyme 1/BACE1. In addition, recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin to maintain a stable pool of monoubiquitin that is a key requirement for the ubiquitin-proteasome and the autophagy-lysosome pathways. Regulates amyloid precursor protein/APP processing by promoting BACE1 degradation resulting in decreased amyloid beta production. Plays a role in the immune response by regulating the ability of MHC I molecules to reach cross-presentation compartments competent for generating Ag-MHC I complexes. Mediates the 'Lys-48'-linked deubiquitination of the transcriptional coactivator WWTR1/TAZ leading to its stabilization and inhibition of osteoclastogenesis. Deubiquitinates and stabilizes epidermal growth factor receptor EGFR to prevent its degradation and to activate its downstream mediators. Modulates oxidative activity in skeletal muscle by regulating key mitochondrial oxidative proteins. Enhances the activity of hypoxia-inducible factor 1-alpha/HIF1A by abrogateing its VHL E3 ligase-mediated ubiquitination and consequently inhibiting its degradation.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	7345

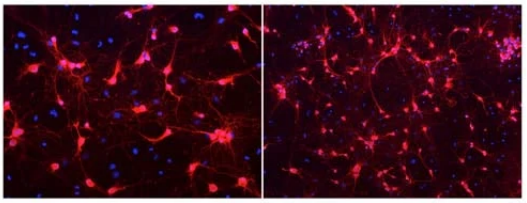
Product Images



An image showing a section of rat spinal cord stained with Mouse monoclonal antibody to Ubiquitin C Terminal Hydrolase 1 [BH7] M-1407-100 (red) and Rabbit polyclonal antibody to neurofilament H R-1388-50 (green). The large cells are a-motorneurons and Ubiquitin C Terminal Hydrolase 1 (UCHL1) fills the cytoplasm of their perikarya and dendrites. The neurofilament NF-H antibody binds primarily to phosphorylated axonal forms of NF-H, and so stains axons coursing between the large motor neurons.



Left: Analysis of UCHL1 expression in rat hippocampal section by **Immunohistochemistry**. UCHL1 protein was visualized with mouse antibody to UCHL1 (green, 1:5,000), and section co-stained with rabbit anti-FOX3/NeuN (R-3770-100, red, 1:2,000). Blue: DAPI nuclear stain. IHC Method: Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post-fixed for 24 hours, cut to 45 um, and free-floating sections were stained. The UCHL1 antibody stains the cell body and dendrites of hippocampal neurons, while the FOX3 antibody labels nuclei of the neuronal cells. **Right: Western blot** analysis of UCHL1 expression in tissue lysates (green, 1:10,000). [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] pig brain, [7] pig spinal cord. The single band at 24 kDa corresponds to the UCHL1 protein.



Ubiquitin C Terminal Hydrolase 1 staining (red) in hippocampal cultures by **Immunocytochemistry**. Primary antibody dilution: 1:2,000. Blue: nuclear stain. Image courtesy of QBM Cell Science.



Created on 19. November 2026 | All information without guarantee