

Rabbit Monoclonal Antibody to Human Ubiquitin Carboxyl-Terminal Esterase L3

Cat. No. CAB11622RH Lot. No. (See product label)

SPECIFICATION

Product Overview Rabbit Monoclonal Antibody to Human Ubiquitin Carboxyl-Terminal Esterase L3

Species Human

Source Rabbit

Antigen Description

Ubiquitin carboxyl-terminal hydrolase isozyme L3, also known as UCH-L3, Ubiquitin thioesterase L3 and UCHL3, is a ubiquitin-protein hydrolase which belongs to the peptidase C12 family. 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 either ubiquitin or NEDD8. UCHL3 is highly expressed in heart, skeletal muscle, and testis. UCHL1 and UCHL3 are two of the deubiquitinating enzymes expressed in the brain. These phenotypes indicate the importance of UCHL1 and UCHL3 in the regulation of the central nervous system. UCHL3 functions as a de-ubiquitinating enzyme where lack of its hydrolase activity may result in the prominent accumulation of ubiquitinated proteins and subsequent induction of stress responses in skeletal muscle. UCHL3 has also been identified as a tumor-specific antigen in colon cancer.

Specificity Human UCHL3. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

Immunogen Recombinant Human UCHL3 Protein

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Isotype	Rabbit IgG
Clone	A002
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human UCHL3 in WB. Using a DAB detection system, the detection limit for Human UCHL3 is approximately 5 ng/lane under non-reducing conditions and reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human UCHL3. The detection limit for Human UCHL3 is approximately 0.0195 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human UCHL3
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	UCHL3 ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase) [Homo sapiens]
Official Symbol	UCHL3


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Synonyms	UCHL3; ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase); ubiquitin carboxyl-terminal hydrolase isozyme L3; ubiquitin thiolesterase; ubiquitin thioesterase L3; UCH-L3;
Gene ID	7347
mRNA Refseq	NM_006002
Protein Refseq	NP_005993
MIM	603090
UniProt ID	P15374
Chromosome Location	13q21.33
Function	cysteine-type peptidase activity; peptidase activity; ubiquitin binding; ubiquitin thiolesterase activity;

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