

Recombinant Mouse Uchl3 Protein, Myc/DDK-tagged

Cat. No. Uchl3-6820M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase) (Uchl3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Deubiquitinating enzyme (DUB) that controls levels of cellular ubiquitin through processing of ubiquitin precursors and ubiquitinated proteins. Thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of either ubiquitin or NEDD8. Has a 10-fold preference for Arg and Lys at position P3", and exhibits a preference towards 'Lys-48'-linked ubiquitin chains. Deubiquitinates ENAC in apical compartments, thereby regulating apical membrane recycling. Indirectly increases the phosphorylation of IGFIR, AKT and FOXO1 and promotes insulin-signaling and insulin-induced adipogenesis. Required for stress-response retinal, skeletal muscle and germ cell maintenance. May be involved in working memory. Can hydrolyze UBB(+1), a mutated form of ubiquitin which is not effectively degraded by the proteasome.
Molecular Mass	26.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Uchl3 ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase) [Mus musculus (house mouse)]

Official Symbol Uchl3

Synonyms UCHL3; ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase); ubiquitin carboxyl-terminal hydrolase isozyme L3; UCH-L3; ubiquitin thiolesterase; ubiquitin thioesterase L3

Gene ID 50933

mRNA Refseq NM_016723

Protein Refseq NP_057932

UniProt ID Q9JKB1

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