

Rabbit Anti-UCHL3 antibody

SL11676R

Product Name:	UCHL3
Chinese Name:	Ubiquitin硫酯酶L3抗体
Alias:	Ubiquitin carboxyl-terminal hydrolase isozyme L3; Ubiquitin thioesterase L3; Ubiquitin thiolesterase; Ubiquitin thiolesterase L3; UCH L3; UCH-L3; UCHL3; UCHL3; UCHL3 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100- 500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	26kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human UCHL3:133-230/230
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	UCH-L1 is a member of a gene family whose products hydrolyze small C-terminal adducts of ubiquitin to generate the ubiquitin monomer. Expression of UCH-L1 is highly specific to neurons and to cells of the diffuse neuroendocrine system and their tumors. UCH-L1 is expressed in brain neurons. Examination of specific brain regions reveals expression in all areas tested, particularly in the substantia nigra. UCH-L1 represents 1

to 2% of total soluble brain protein. Its occurrence in Lewy bodies and its function in the proteasome pathway make it a compelling candidate gene in Parkinson disease. The gene which encodes UCH-L1 maps to human chromosome 4p14. The 230 amino acid human UCH-L3 protein is 54% identical to that of UCH-L1. UCH-L3 is the predominant thiol protease and has high-affinity binding sites for ubiquitin.

Function:

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". Deubiquitinates ENAC in apical compartments, thereby regulating apical membrane recycling. Indirectly increases the phosphorylation of IGFIR, AKT and FOXO1 and promotes insulinsignaling and insulin-induced adipogenesis. Required for stress-response retinal, skeletal muscle and germ cell maintenance. May be involved in working memory.

Subunit:

Preferentially binds diubiquitin; the interaction does not hydrolyze diubiquitin but, in vitro, inhibits the hydrolyzing activity on other substrates.

Subcellular Location: Cytoplasm.

Tissue Specificity: Highly expressed in heart, skeletal muscle, and testis.

Post-translational modifications: Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity: Belongs to the peptidase C12 family.

SWISS: P15374

Gene ID: 7347

Database links:

Entrez Gene: 7347Human

Entrez Gene: 50933Mouse

Entrez Gene: 498560Rat

Omim: 603090Human

	SwissProt: P15374Human
	SwissProt: Q9JKB1Mouse
	SwissProt: Q91Y78Rat
	Unigene: 162241Human
	Unigene: 275970Mouse
	Unigene: 145487Rat
	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	
	Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); Antigen retrieval
	by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase
	by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at
	37°C for 30min; Antibody incubation with (UCHL3) Polyclonal Antibody,
	Unconjugated (SL11676R) at 1:200 overnight at 4°C, followed by operating
	according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (UCHL3) Polyclonal Antibody, Unconjugated (SL11676R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.