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Anti-UCHL3 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17577

Product Information

Application	IHC-P
Primary Accession	P15374
Predicted	Human, Monkey, Bovine, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26183
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	7347
Alias Symbol	UCHL3
Other Names	UCHL3, Ubiquitin thiolesterase, Ubiquitin thioesterase L3, UCH-L3
Target/Specificity	Human UCHL3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-UCHL3 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UCHL3 {ECO:0000303|PubMed:19047059, ECO:0000312|HGNC:HGNC:12515}
Function	Deubiquitinating enzyme (DUB) that controls levels of cellular ubiquitin through processing of ubiquitin precursors and ubiquitinated proteins (PubMed:19154770, PubMed:21762696, PubMed:22689415, PubMed:2530630). Thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of either ubiquitin or NEDD8 (PubMed:19154770, PubMed:21762696, PubMed:22689415, PubMed:2530630, PubMed:9790970). Has a 10-fold preference for Arg and Lys at position P3'', and exhibits a preference towards 'Lys-48'-linked ubiquitin chains (PubMed:19154770, PubMed:21762696, PubMed:22689415, PubMed:2530630). Can hydrolyze UBB(+1), a mutated form of ubiquitin which is not effectively degraded by the proteasome and is associated with neurodegenerative disorders (By similarity). Involved in DNA repair via homologous recombination (HR) by mediating deubiquitination of RAD51 in

response to DNA damage, promoting interaction between RAD51 and BRCA2 (PubMed:27941124). Deubiquitinates ENAC in apical compartments, thereby regulating apical membrane recycling (By similarity). Indirectly increases the phosphorylation of IGFIR, AKT and FOXO1 and promotes insulin-signaling and insulin-induced adipogenesis (By similarity). Required for stress-response retinal, skeletal muscle and germ cell maintenance (By similarity). May be involved in working memory (By similarity).

Cellular Location Cytoplasm.

Tissue Location Highly expressed in heart, skeletal muscle, and testis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.