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Uchl3 Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI14379

Product Information

Application	WB
Primary Accession	Q9JKB1
Other Accession	NM_016723, NP_057932
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Yeast
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Yeast
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26152

Additional Information

Gene ID	50933
Other Names	Ubiquitin carboxyl-terminal hydrolase isozyme L3, UCH-L3, 3.4.19.12, Ubiquitin thioesterase L3, Uchl3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Uchl3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Uchl3 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

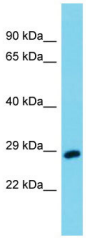
Name	Uchl3 {ECO:0000303|PubMed:11341770, ECO:0000312|MGI:MGI:1355274}
Function	Deubiquitinating enzyme (DUB) that controls levels of cellular ubiquitin through processing of ubiquitin precursors and ubiquitinated proteins (By similarity). Thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of either ubiquitin or NEDD8 (By similarity). Has a 10-fold preference for Arg and Lys at position P3'', and exhibits a preference towards 'Lys-48'- linked ubiquitin chains (By similarity). Can hydrolyze UBB(+1), a mutated form of ubiquitin which is not effectively degraded by the proteasome and is associated with neurodegenerative disorders (PubMed:21762696). Involved in DNA repair via homologous recombination (HR) by mediating deubiquitination of RAD51 in response to DNA damage, promoting interaction between RAD51 and BRCA2 (By similarity).

	Deubiquitinates ENAC in apical compartments, thereby regulating apical membrane recycling (PubMed:17967898). Indirectly increases the phosphorylation of IGFIR, AKT and FOXO1 and promotes insulin-signaling and insulin-induced adipogenesis (PubMed:19837878). Required for stress-response retinal, skeletal muscle and germ cell maintenance (PubMed:16816367, PubMed:17460351). May be involved in working memory (PubMed:15884048).
Cellular Location	Cytoplasm
Tissue Location	Ubiquitously expressed, with highest levels in brain, liver, heart, thymus, kidney and testis. Highly expressed in the cauda epididymidis, in meiotic pachytene spermatocytes and post-meiotic spematids. In the retina, enriched in the photoreceptor inner segment

References

Kurihara L.J.,et al.Mol. Cell. Biol. 20:2498-2504(2000).
Osawa Y.,et al.Biochem. Biophys. Res. Commun. 283:627-633(2001).
Wada H.,et al.Biochem. Biophys. Res. Commun. 251:688-692(1998).
Wood M.A.,et al.Hippocampus 15:610-621(2005).
Sano Y.,et al.Am. J. Pathol. 169:132-141(2006).

Images



Host: Rabbit
Target Name: Uchl3
Sample Tissue: Mouse Testis lysates
Antibody Dilution: 1.0µg/ml

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