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Anti-USP2 Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17621

Product Information

Application	IHC-P
Primary Accession	O75604
Predicted	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Bovine, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68072
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	9099
Alias Symbol	USP2
Other Names	USP2, Deubiquitinating enzyme 2, Ubiquitin specific peptidase 2, Ubiquitin specific protease 9, USP9, Ubiquitin specific protease 12, Ubiquitin specific protease 2, Ubiquitin thioesterase 2, UBP41
Target/Specificity	Human USP2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-USP2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	USP2
Synonyms	UBP41
Function	Hydrolase that deubiquitinates polyubiquitinated target proteins such as MDM2, MDM4 and CCND1 (PubMed:17290220, PubMed:19838211, PubMed:19917254). Isoform 1 and isoform 4 possess both ubiquitin-specific peptidase and isopeptidase activities (By similarity). Deubiquitinates MDM2 without reversing MDM2-mediated p53/TP53 ubiquitination and thus indirectly promotes p53/TP53 degradation and limits p53 activity (PubMed:17290220, PubMed:19838211). Has no deubiquitinase activity against p53/TP53 (PubMed:17290220). Prevents MDM2-mediated degradation of MDM4 (PubMed:17290220). Plays a role in the G1/S cell-cycle progression in normal and cancer cells (PubMed:19917254). Regulates the circadian clock

	by modulating its intrinsic circadian rhythm and its capacity to respond to external cues (By similarity). Associates with clock proteins and deubiquitinates core clock component PER1 but does not affect its overall stability (By similarity). Regulates the nucleocytoplasmic shuttling and nuclear retention of PER1 and its repressive role on the clock transcription factors CLOCK and BMAL1 (By similarity). Plays a role in the regulation of myogenic differentiation of embryonic muscle cells (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:O88623}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:O88623} Note=Localizes in the spermatid head in late-elongating spermatids in the thin area between the outer acrosomal membrane and the plasma membrane. {ECO:0000250|UniProtKB:Q5U349}
Tissue Location	Expressed in mesangial cells of the kidney and in different types of glomerulonephritides (at protein level)

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