Anti-UBP10 antibody

Description	Unconjugated Rabbit polyclonal to UBP10

Model	STJ191568
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Gene ID	9100
Gene Symbol	USP10
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	UBP10 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Widely expressed.
Purification	UBP10 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Ubiquitin carboxyl-terminal hydrolase 10 Deubiquitinating enzyme 10 Ubiquitin thioesterase 10 Ubiquitin-specific-processing protease 10
Molecular Weight	87 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid form in PBS containing 50% glycerol,and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:12608OMIM:609818
Alternative Names	Ubiquitin carboxyl-terminal hydrolase 10 Deubiquitinating enzyme 10 Ubiquitin thioesterase 10 Ubiquitin-specific-processing protease 10
Function	Hydrolase that can remove conjugated ubiquitin from target proteins such as p53/TP53, BECN1, SNX3 and CFTR. Acts as an essential regulator of p53/TP53 stability: in unstressed cells, specifically deubiquitinates p53/TP53 in the cytoplasm, leading to counteract MDM2 action and stabilize p53/TP53. Following DNA damage, translocates to the nucleus and deubiquitinates p53/TP53, leading to regulate the p53/TP53-dependent DNA damage response. Component of a regulatory loop that controls autophagy and p53/TP53 levels: mediates deubiquitination of BECN1, a key regulator of autophagy, leading to stabilize the PIK3C3/VPS34-containing complexes. In turn, PIK3C3/VPS34-containing complexes regulate USP10 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Does not deubiquitinate MDM2. Deubiquitinates CFTR in early endosomes, enhancing its endocytic recycling. Involved in a TANK-dependent negative feedback response to attenuate NF-kappaB activation via deubiquitinating IKBKG or TRAF6 in response to interleukin-1-beta (IL1B) stimulation or upon DNA damage .
Cellular Localization	Cytoplasm Nucleus Early endosome. Cytoplasmic in normal conditions . After DNA damage, translocates to the nucleus following phosphorylation by ATM .
Post-translational Modifications	Phosphorylated by ATM following DNA damage, leading to stablization and translocation it to the nucleus. Ubiquitinated. Deubiquitinated by USP13.