

USP30 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51604

Product Information

Application	WB, ICC
Primary Accession	Q70CQ3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58503

Additional Information

Gene ID	84749
Other Names	Ubiquitin carboxyl-terminal hydrolase 30, Deubiquitinating enzyme 30, Ubiquitin thioesterase 30, Ubiquitin-specific-processing protease 30, Ub-specific protease 30, USP30
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human USP30. The exact sequence is proprietary.
Dilution	WB~~1:1000 ICC~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	USP30 (HGNC:20065)
Function	Deubiquitinating enzyme tethered to the mitochondrial outer membrane that acts as a key inhibitor of mitophagy by counteracting the action of parkin (PRKN): hydrolyzes ubiquitin attached by parkin on target proteins, such as RHOT1/MIRO1 and TOMM20, thereby blocking parkin's ability to drive mitophagy (PubMed: 18287522 , PubMed: 24896179 , PubMed: 25527291 , PubMed: 25621951). Preferentially cleaves 'Lys-6'- and 'Lys-11'-linked polyubiquitin chains, 2 types of linkage that participate in mitophagic signaling (PubMed: 25621951). Does not cleave efficiently polyubiquitin phosphorylated at 'Ser-65' (PubMed: 25527291). Acts as a negative regulator of mitochondrial fusion by mediating deubiquitination of MFN1 and MFN2 (By similarity).
Cellular Location	Mitochondrion outer membrane

Tissue Location

Expressed in skeletal muscle, pancreas, liver and kidney.

Background

May participate in the maintenance of mitochondrial morphology.

References

Quesada V.,et al.Biochem. Biophys. Res. Commun. 314:54-62(2004).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Nakamura N.,et al.Mol. Biol. Cell 19:1903-1911(2008).

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