

USP30 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51604

Specification

USP30 Antibody - Product Information

Application	WB, ICC, E
Primary Accession	O70C03
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59 KDa

USP30 Antibody - 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

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

USP30 Antibody - 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](http://www.uniprot.org/citations/18287522), PubMed: [24896179](http://www.uniprot.org/citations/24896179), PubMed: [25527291](http://www.uniprot.org/citations/25527291), PubMed: [25621951](http://www.uniprot.org/citations/25621951)). Preferentially cleaves 'Lys-6'- and 'Lys-11'-linked polyubiquitin chains, 2 types of linkage that participate in mitophagic signaling (PubMed: [25621951](http://www.uniprot.org/citations/25621951)). Does not cleave efficiently polyubiquitin phosphorylated at 'Ser-65' (PubMed: [25527291](http://www.uniprot.org/citations/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.

USP30 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

USP30 Antibody - Images

USP30 Antibody - Background

May participate in the maintenance of mitochondrial morphology.

USP30 Antibody - 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).