

# USP30 Polyclonal Antibody

Catalog # AP73017

## Product Information

Application	WB
Primary Accession	<a href="#">Q70CQ3</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58503

## Additional Information

Gene ID	84749
Other Names	USP30; Ubiquitin carboxyl-terminal hydrolase 30; Deubiquitinating enzyme 30; Ubiquitin thioesterase 30; Ubiquitin-specific-processing protease 30; Ub-specific protease 30
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

Name	USP30 ( <a href="#">HGNC:20065</a> )
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: <a href="#">18287522</a> , PubMed: <a href="#">24896179</a> , PubMed: <a href="#">25527291</a> , PubMed: <a href="#">25621951</a> ). Preferentially cleaves 'Lys-6'- and 'Lys-11'-linked polyubiquitin chains, 2 types of linkage that participate in mitophagic signaling (PubMed: <a href="#">25621951</a> ). Does not cleave efficiently polyubiquitin phosphorylated at 'Ser-65' (PubMed: <a href="#">25527291</a> ). 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.

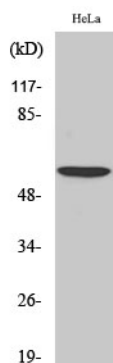
## Background

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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 to mitophagic signaling (PubMed:[25621951](#)). Does not cleave efficiently polyubiquitin phosphorylated at 'Ser-65' (PubMed:[25527291](#)). Acts as negative regulator of mitochondrial fusion by mediating deubiquitination of MFN1 and MFN2 (By similarity).

## Images

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Western Blot analysis of various cells using USP30 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

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