

USP30 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14725a**Specification**

USP30 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q70CQ3](#)**USP30 Antibody (N-term) Blocking Peptide - 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

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

USP30 Antibody (N-term) Blocking Peptide - Protein InformationName 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.

USP30 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

USP30 Antibody (N-term) Blocking Peptide - Images**USP30 Antibody (N-term) Blocking Peptide - Background**

USP30, a member of the ubiquitin-specific protease family(see USP1, MIM 603478), is a novel mitochondrial deubiquitinating(DUB) enzyme (Nakamura and Hirose, 2008 [PubMed18287522]).

USP30 Antibody (N-term) Blocking Peptide - References

Nakamura, N., et al. Mol. Biol. Cell 19(5):1903-1911(2008)Quesada, V., et al. Biochem. Biophys. Res. Commun. 314(1):54-62(2004)Puente, X.S., et al. Nat. Rev. Genet. 4(7):544-558(2003)