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OTUD1 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP11168c

Specification

OTUD1 Antibody (Center) Blocking peptide - Product Information

Primary Accession Q5VV17

OTUD1 Antibody (Center) Blocking peptide - Additional Information

Gene ID 220213

Other Names
OTU domain-containing protein 1, DUBA-7, OTUD1, DUBA7, OTDC1

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.

OTUD1 Antibody (Center) Blocking peptide - Protein Information

Name OTUD1 {ECO:0000303|PubMed:23827681, ECO:0000312|HGNC:HGNC:27346}

Function
Deubiquitinating enzyme that specifically hydrolyzes 'Lys- 63'-linked polyubiquitin to monoubiquitin (PubMed:23827681). Required for the stability and translation of a subset mRNAs with a high abundance of rare codons by mediating deubiquitination of 40S ribosomal protein RPS10/eS10, thereby antagonizing ZNF598-mediated 40S ubiquitination (PubMed:36445135). The abundance of rare codons in mRNAs can limit the translation rate and can lead to ribosome collisions that trigger activation of ribosome quality control (RQC) pathway by ZNF598 (PubMed:36445135). OTUD1-mediated deubiquitination prevents activation of the RQC and subsequent dissociation of ribosomes and stimulates formation of polysomes and translation (PubMed:36445135).

OTUD1 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

OTUD1 Antibody (Center) Blocking peptide - Images

OTUD1 Antibody (Center) Blocking peptide - Background

Deubiquitinating enzymes (DUBs; see MIM 603478) areproteases that specifically cleave ubiquitin (MIM 191339) linkages,negating the action of ubiquitin ligases. DUBA7 belongs to a DUBsubfamily characterized by an ovarian tumor (OTU) domain.[suppliedby OMIM].

OTUD1 Antibody (Center) Blocking peptide - References

Franke, A., et al. Gastroenterology 135(4):1207-1215(2008)Kayagaki, N., et al. Science 318(5856):1628-1632(2007)Deloukas, P., et al. Nature 429(6990):375-381(2004)Makarova, K.S., et al. Trends Biochem. Sci. 25(2):50-52(2000)