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UFD1L Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6626b

Specification

UFD1L Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q92890

UFD1L Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 7353

Other Names
Ubiquitin fusion degradation protein 1 homolog, UB fusion protein 1, UFD1L

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6626b was selected from the C-term region of human UFD1L. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

UFD1L Antibody (C-term) Blocking Peptide - Protein Information

Name UFD1 (HGNC:12520)

Synonyms UFD1L

Function
Essential component of the ubiquitin-dependent proteolytic pathway which degrades ubiquitin fusion proteins. The ternary complex containing UFD1, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are degraded by the proteasome. The NPLOC4-UFD1- VCP complex regulates spindle disassembly at the end of mitosis and is necessary for the formation of a closed nuclear envelope. It may be involved in the development of some ectoderm-derived structures (By similarity). Acts as a negative regulator of type I interferon production via the complex formed with VCP and NPLOC4, which binds to RIGI and recruits RNF125 to promote ubiquitination and degradation of RIGI (PubMed:26471729).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q9ES53}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9ES53}

Tissue Location
Found in adult heart, skeletal muscle and pancreas, and in fetal liver and kidney

UFD1L Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

UFD1L Antibody (C-term) Blocking Peptide - Images

UFD1L Antibody (C-term) Blocking Peptide - Background

UFD1L forms a complex with two other proteins, nuclear protein localization-4 and valosin-containing protein, and this complex is necessary for the degradation of ubiquitinated proteins. In addition, this complex controls the disassembly of the mitotic spindle and the formation of a closed nuclear envelope after mitosis. Mutations in its gene have been associated with Catch 22 syndrome as well as cardiac and craniofacial defects.

UFD1L Antibody (C-term) Blocking Peptide - References

Xie,L., Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (7), 1076-1079 (2008)Cao,J., Cell Metab. 6 (2), 115-128 (2007)