10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Ufc1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP2187a

Specification

Ufc1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9Y3C8

Ufc1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 51506

Other Names
Ubiquitin-fold modifier-conjugating enzyme 1, Ufm1-conjugating enzyme 1, UFC1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2187a was selected from the N-term region of human Ufc1. 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.

Ufc1 Antibody (N-term) Blocking Peptide - Protein Information

Name UFC1 {ECO:0000303|PubMed:15071506, ECO:0000312|HGNC:HGNC:26941}

Function
E1-like enzyme which specifically catalyzes the second step in ufmylation (PubMed:15071506, PubMed:29868776). Accepts the ubiquitin-like modifier UFM1 from the E1 enzyme UBA5 and forms an intermediate with UFM1 via a thioester linkage (PubMed:15071506, PubMed:29868776). Ufmylation is involved in reticulophagy (also called ER-phagy) induced in response to endoplasmic reticulum stress (PubMed:32160526).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Ufc1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Ufc1 Antibody (N-term) Blocking Peptide - Images

Ufc1 Antibody (N-term) Blocking Peptide - Background

Various ubiquitin-like (UBL) post-translational modifiers contribute critically to the protein degradation pathway . These UBLs are covalently linked to most target proteins through an enzymatic cascade analogous to ubiquitylation, consisting of E1 (activating), E2 (conjugating), and E3 (ligating) enzymes. Ufc1 Belongs to the ubiquitin-conjugating enzyme family, and is an E2-like enzyme which forms an intermediate with UFM1, a novel ubiquitin-fold modifier, via thioester linkage.

Ufc1 Antibody (N-term) Blocking Peptide - References

Komatsu, M., et al., EMBO J. 23(9):1977-1986 (2004).