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UBE2S Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20071b

Specification

UBE2S Blocking Peptide (C-term) - Product Information

Primary Accession	Q16763
Other Accession	B5DFI8, Q921J4, Q1RML1, A1L3K1, NP_055316.2

UBE2S Blocking Peptide (C-term) - Additional Information

Gene ID 27338

Other Names
Ubiquitin-conjugating enzyme E2 S, E2-EPF, Ubiquitin carrier protein S, Ubiquitin-conjugating enzyme E2-24 kDa, Ubiquitin-conjugating enzyme E2-EPF5, Ubiquitin-protein ligase S, UBE2S, E2EPF

Target/Specificity
The synthetic peptide sequence is selected from aa 198-210 of HUMAN UBE2S

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.

UBE2S Blocking Peptide (C-term) - Protein Information

Name UBE2S

Synonyms E2EPF

Function
Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins (PubMed:22496338). Catalyzes 'Lys-11'-linked polyubiquitination. Acts as an essential factor of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis. Acts by specifically elongating 'Lys-11'-linked polyubiquitin chains initiated by the E2 enzyme UBE2C/UBCH10 on APC/C substrates, enhancing the degradation of APC/C substrates by the proteasome and promoting mitotic exit (PubMed:19820702, PubMed:19822757, PubMed:<a

href="http://www.uniprot.org/citations/27259151" target="_blank">27259151). Also acts by elongating ubiquitin chains initiated by the E2 enzyme UBE2D1/UBCH5 in vitro; it is however unclear whether UBE2D1/UBCH5 acts as an E2 enzyme for the APC/C in vivo. Also involved in ubiquitination and subsequent degradation of VHL, resulting in an accumulation of HIF1A (PubMed:16819549). In vitro able to promote polyubiquitination using all 7 ubiquitin Lys residues, except 'Lys-48'-linked polyubiquitination (PubMed:20061386, PubMed:20622874).

UBE2S Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

UBE2S Blocking Peptide (C-term) - Images

UBE2S Blocking Peptide (C-term) - Background

This gene encodes a member of the ubiquitin-conjugating enzyme family. The encoded protein is able to form a thiol ester linkage with ubiquitin in a ubiquitin activating enzyme-dependent manner, a characteristic property of ubiquitin carrier proteins.

UBE2S Blocking Peptide (C-term) - References

Wu, T., et al. Proc. Natl. Acad. Sci. U.S.A. 107(4):1355-1360(2010)
Garnett, M.J., et al. Nat. Cell Biol. 11(11):1363-1369(2009)
Williamson, A., et al. Proc. Natl. Acad. Sci. U.S.A. 106(43):18213-18218(2009)
Chen, M.F., et al. J. Mol. Med. 87(3):307-320(2009)
Lim, J.H., et al. J. Cell. Biochem. 105(4):1117-1127(2008)