

**UBE2B Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16790c****Specification**

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**UBE2B Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P63146](#)**UBE2B Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 7320**Other Names**

Ubiquitin-conjugating enzyme E2 B, RAD6 homolog B, HR6B, hHR6B, Ubiquitin carrier protein B, Ubiquitin-conjugating enzyme E2-17 kDa, Ubiquitin-protein ligase B, UBE2B, RAD6B

**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.

**UBE2B Antibody (Center) Blocking Peptide - Protein Information****Name** UBE2B ([HGNC:12473](#))**Function**

Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In association with the E3 enzyme BRE1 (RNF20 and/or RNF40), it plays a role in transcription regulation by catalyzing the monoubiquitination of histone H2B at 'Lys- 120' to form H2BK120ub1. H2BK120ub1 gives a specific tag for epigenetic transcriptional activation, elongation by RNA polymerase II, telomeric silencing, and is also a prerequisite for H3K4me and H3K79me formation. In vitro catalyzes 'Lys-11'-, as well as 'Lys-48'- and 'Lys-63'-linked polyubiquitination. Required for postreplication repair of UV-damaged DNA. Associates to the E3 ligase RAD18 to form the UBE2B-RAD18 ubiquitin ligase complex involved in mono-ubiquitination of DNA- associated PCNA on 'Lys-164'. May be involved in neurite outgrowth. May play a role in DNA repair (PubMed:<a href="http://www.uniprot.org/citations/8062904" target="\_blank">8062904</a>).

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:P63149}. Nucleus {ECO:0000250|UniProtKB:P63149}. Note=In peripheral neurons, expressed both at the plasma membrane and in nuclei {ECO:0000250|UniProtKB:P63149}

## **UBE2B Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **UBE2B Antibody (Center) Blocking Peptide - Images**

## **UBE2B Antibody (Center) Blocking Peptide - Background**

The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is required for post-replicative DNA damage repair. Its protein sequence is 100% identical to the mouse, rat, and rabbit homologs, which indicates that this enzyme is highly conserved in eukaryotic evolution.

## **UBE2B Antibody (Center) Blocking Peptide - References**

Aston, K.I., et al. Hum. Reprod. 25(6):1383-1397(2010) Ryu, K.S., et al. BMB Rep 41(12):852-857(2008) Suryavathi, V., et al. J. Androl. 29(5):564-571(2008) Huang, I., et al. Asian J. Androl. 10(3):461-466(2008) Tsuji, Y., et al. Genes Cells 13(4):343-354(2008)