

UBE4B Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2111a**Specification**

UBE4B Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O95155](#)**UBE4B Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 10277**Other Names**

Ubiquitin conjugation factor E4 B, 632-, UBE4B (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=12500)
HGNC:12500

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2111a](/product/products/AP2111a) was selected from the N-term region of human UBE4B . 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.

UBE4B Antibody (N-term) Blocking Peptide - Protein Information**Name** UBE4B ([HGNC:12500](#))**Function**

Ubiquitin-protein ligase that probably functions as an E3 ligase in conjunction with specific E1 and E2 ligases (By similarity). May also function as an E4 ligase mediating the assembly of polyubiquitin chains on substrates ubiquitinated by another E3 ubiquitin ligase (By similarity). May regulate myosin assembly in striated muscles together with STUB1 and VCP/p97 by targeting myosin chaperone UNC45B for proteasomal degradation (PubMed:[17369820](http://www.uniprot.org/citations/17369820)).

Cellular Location

Cytoplasm. Nucleus {ECO:0000250|UniProtKB:Q9ES00}

Tissue Location

Expressed in differentiated myotubes (at protein level) (PubMed:17369820). Highest expression in ovary, testis, heart and skeletal muscle (PubMed:11802788). Expression is low in colon, thymus and peripheral blood leukocytes (PubMed:11802788). Almost undetectable in lung and spleen (PubMed:11802788)

UBE4B Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

UBE4B Antibody (N-term) Blocking Peptide - Images**UBE4B Antibody (N-term) 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. UBE4B represents an additional conjugation factor, E4, which is involved in multiubiquitin chain assembly. UBE4B also the strongest candidate among the neuroblastoma tumor suppressors.

UBE4B Antibody (N-term) Blocking Peptide - References

Ishikawa, K., et al., DNA Res. 5(3):169-176 (1998). Mahoney, J.A., et al., Biochem. J. 361 (Pt 3), 587-595 (2002).