

UBC9 (UBE2I) Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP1064b**Specification****UBC9 (UBE2I) Antibody (C-term) Blocking peptide
- Product Information**Primary Accession [P63279](#)**UBC9 (UBE2I) Antibody (C-term) Blocking peptide
- Additional Information**

Gene ID 7329

Other Names

SUMO-conjugating enzyme UBC9, 632-,
SUMO-protein ligase, Ubiquitin carrier
protein 9, Ubiquitin carrier protein I,
Ubiquitin-conjugating enzyme E2 I,
Ubiquitin-protein ligase I, p18, UBE2I, UBC9,
UBCE9

Target/Specificity

The synthetic peptide sequence used to
generate the antibody [<a href=/product/pr
oducts/AP1064b>AP1064b](#) was
selected from the C-term region of human
UBE2I. 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.

**UBC9 (UBE2I) Antibody (C-term) Blocking peptide
- Protein Information****UBC9 (UBE2I) Antibody (C-term) Blocking
peptide - Background**

UBE2I (Ubc9) is a member of the E2 family
and is specific for the conjugation of SUMO to a
variety of target proteins. SUMO conjugation to
target proteins is mediated by a different, but
analogous, pathway to ubiquitylation. This E2
is unusual in that it interacts directly with
protein substrates that are modified by
sumoylation, and may play a role in substrate
recognition. UBE2I can mediate the
conjugation of SUMO-1 to a variety of proteins
including RanGAP1, I κ B α , and PML without the
requirement of an E3 ligase. UBE2I is essential
for nuclear architecture and chromosome
segregation.

**UBC9 (UBE2I) Antibody (C-term) Blocking
peptide - References**

Biochem Biophys Res Commun. 2002 Aug
30;296(4):870-6. Genomics. 1996 Oct
15;37(2):183-6. Cytogenet Cell Genet.
1996;75(4):222-3. Cytogenet Cell Genet.
1996;72(1):86-9.

Name UBE2I

Synonyms UBC9, UBCE9

Function

Accepts the ubiquitin-like proteins SUMO1, SUMO2, SUMO3, SUMO4 and SUMO1P1/SUMO5 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2, CBX4 and ZNF451. Can catalyze the formation of poly-SUMO chains. Necessary for sumoylation of FOXL2 and KAT5. Essential for nuclear architecture and chromosome segregation. Sumoylates p53/TP53 at 'Lys-386'. Mediates sumoylation of ERCC6 which is essential for its transcription-coupled nucleotide excision repair activity (PubMed:26620705).

Cellular Location

Nucleus. Cytoplasm Note=Mainly nuclear (By similarity). In spermatocytes, localizes in synaptonemal complexes (PubMed:8610150). Recruited by BCL11A into the nuclear body (By similarity). {ECO:0000250|UniProtKB:P63280, ECO:0000269|PubMed:8610150}

Tissue Location

Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.

UBC9 (UBE2I) Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)