

**UBC9 (UBE2I) Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1064a**

**Specification**

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**UBC9 (UBE2I) Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P63279</a>
Other Accession	<a href="#">P63282</a> , <a href="#">P63281</a> , <a href="#">P63280</a> , <a href="#">P63283</a> , <a href="#">Q9DDJ0</a> , <a href="#">Q9W6H5</a>
Reactivity	<b>Human</b>
Predicted	<b>Zebrafish, Chicken, Mouse, Rat, Xenopus</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>1-30</b>

**UBC9 (UBE2I) Antibody (N-term) - 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**

This UBC9 (UBE2I) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human UBC9 (UBE2I).

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

UBC9 (UBE2I) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**UBC9 (UBE2I) Antibody (N-term) - Protein Information**

**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 Cytoplasm, perinuclear region 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

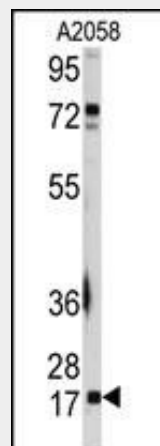
Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.

### UBC9 (UBE2I) Antibody (N-term) - Protocols

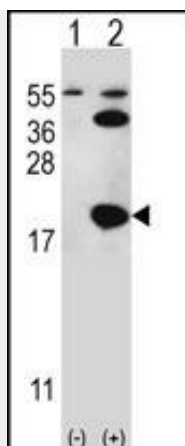
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

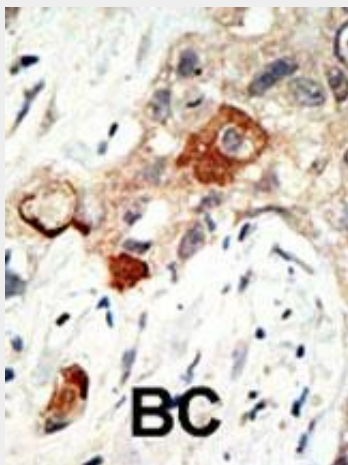
### UBC9 (UBE2I) Antibody (N-term) - Images



Western blot analysis of anti-UBE2I Antibody (N-term) (Cat.#AP1064a) in A2058 cell line lysates (35ug/lane). UBE2I(arrow) was detected using the purified Pab.



Western blot analysis of UBE2I (arrow) using rabbit polyclonal UBE2I Antibody (S7) (Cat.#AP1064a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the UBE2I gene.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **UBC9 (UBE2I) Antibody (N-term) - 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 ubiquitinylation. 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?B?, and PML without the requirement of an E3 ligase. UBE2I is essential for nuclear architecture and chromosome segregation.

#### **UBC9 (UBE2I) Antibody (N-term) - 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.

#### **UBC9 (UBE2I) Antibody (N-term) - Citations**

- [UBC9-dependent association between calnexin and protein tyrosine phosphatase 1B](#)

- [\(PTP1B\) at the endoplasmic reticulum.](#)
- [MDA5 is SUMOylated by PIAS2<sup>12</sup> in the upregulation of type I interferon signaling.](#)