

**UBE2B Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2115b**

**Specification**

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**UBE2B Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P63146</a>
Other Accession	<a href="#">P63149</a> , <a href="#">P63148</a> , <a href="#">P63147</a> , <a href="#">Q32P99</a> , <a href="#">Q9Z255</a> , <a href="#">P49459</a> , <a href="#">NP_003328</a>
Reactivity	<b>Human</b>
Predicted	<b>Mouse, Bovine, Rabbit, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>17312</b>
Antigen Region	<b>117-146</b>

**UBE2B Antibody (C-term) - 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

**Target/Specificity**

This UBE2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 117-146 amino acids from the C-terminal region of human UBE2B.

**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**

UBE2B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**UBE2B Antibody (C-term) - Protein Information**

**Name** UBE2B ([HGNC:12473](#))

**Function** E2 ubiquitin-conjugating enzyme that accepts ubiquitin from the ubiquitin-activating enzyme E1 and transfers it to a E3 ubiquitin- protein ligase (PubMed:[16337599](#), PubMed:[17108083](#), PubMed:[17130289](#), PubMed:[1717990](#), PubMed:[20061386](#)). In vitro catalyzes 'Lys-11', as well as 'Lys-48'- and 'Lys-63'-linked polyubiquitination (PubMed:[20061386](#)). Together with the E3 enzyme BRE1 (RNF20 and/or RNF40), plays a role in transcription regulation by catalyzing the monoubiquitination of histone H2B at 'Lys-120' to form H2BK120ub1 (PubMed:[16337599](#)). 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 (PubMed:[16337599](#)). May play a role in DNA repair (PubMed:[8062904](#)). 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' (PubMed:[17108083](#), PubMed:[17130289](#)). In association with the E3 enzyme UBR4, is involved in N-end rule-dependent protein degradation (PubMed:[38182926](#)). May be involved in neurite outgrowth (By similarity).

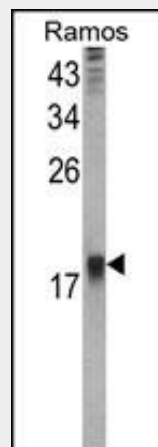
**Cellular Location**

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}

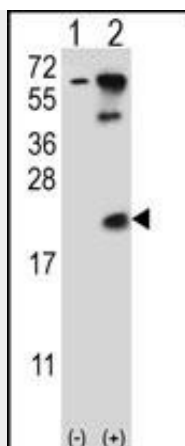
**UBE2B Antibody (C-term) - Protocols**

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

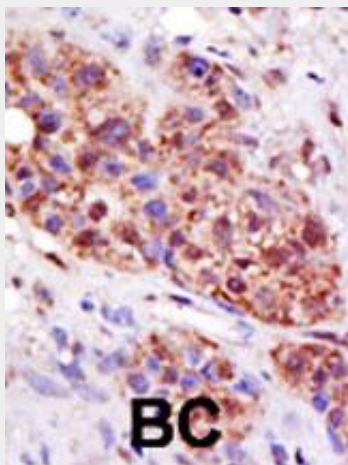
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**UBE2B Antibody (C-term) - Images**

Western blot analysis of UBE2B Antibody (C-term) (Cat. #AP2115b) in Ramos cell line lysates (35ug/lane). UBE2B (arrow) was detected using the purified Pab.



Western blot analysis of UBE2B (arrow) using rabbit polyclonal UBE2B Antibody (E132) (Cat. #AP2115b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the UBE2B gene.



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

### UBE2B Antibody (C-term) - 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. UBE2B is 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 (C-term) - References

- Koken, M.H., et al., Genomics 12(3):447-453 (1992).
- Koken, M.H., et al., Proc. Natl. Acad. Sci. U.S.A. 88(20):8865-8869 (1991).
- Schneider, R., et al., EMBO J. 9(5):1431-1435 (1990).