10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

UBE2B Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2115b

Specification

UBE2B Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P63146
Other Accession	P63149, P63148, P63147, Q32P99, Q9Z255, P49459, NP_003328
Reactivity	**Human**
Predicted	**Mouse, Bovine, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**17312**
Antigen Region	**117-146**

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

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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).

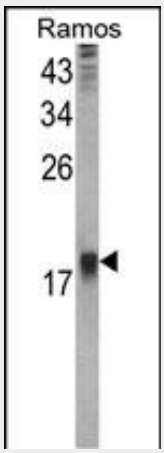
Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P63149}. Nucleus {ECO:0000250|UniProtKB:P63149}. Note=In peripheral neurons, expressed both at the plasma membrane and in nuclei {ECO:0000250|UniProtKB:P63149}

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 Cytomety
- 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.

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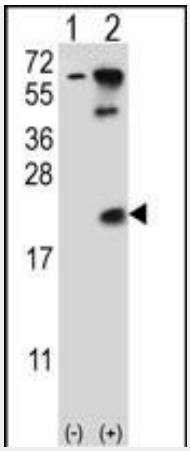
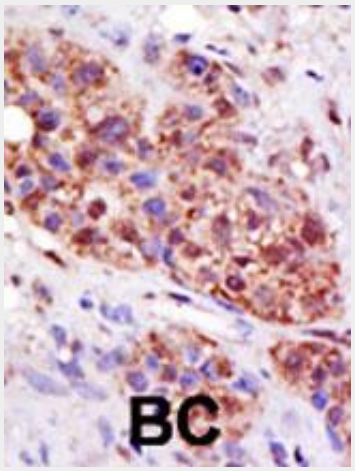


Western blot analysis of UBE2B (arrow) using rabbit polyclonal UBE2B Antibody (E132) (Cat. #AP2115b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the UBE2B gene.



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).