

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

Specification

UBE2B Antibody (C-term) - Product Information

Application	IHC-P, WB,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

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

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).

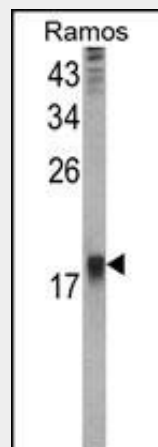
Cellular Location

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}

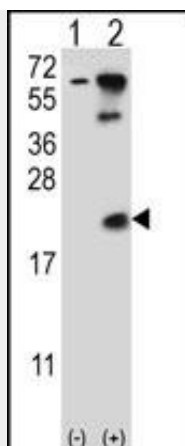
UBE2B Antibody (C-term) - Protocols

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

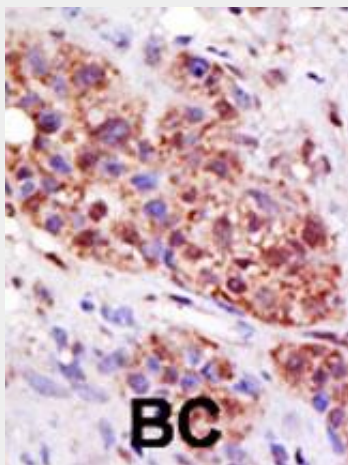
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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).