

Ube2B Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58138**Specification****Ube2B Polyclonal Antibody - Product Information**

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | IHC-P, IHC-F, IF, E |
| Primary Accession | P63146 |
| Reactivity | Rat, Pig |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 17 KDa |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human Ube2B |
| Epitope Specificity | 1-100/152 |
| Isotype | IgG |
| Purity | |
| affinity purified by Protein A | |
| Buffer | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| SUBCELLULAR LOCATION | Cell membrane (By similarity). Nucleus (By similarity). Note=In peripheral neurons, expressed both at the plasma membrane and in nuclei (By similarity). |
| SIMILARITY | Belongs to the ubiquitin-conjugating enzyme family. |
| SUBUNIT | Interacts with RAD18, UBR2 and WAC. |
| Important Note | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

Background Descriptions

Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In association with the E3 enzyme BRE1 (RNF20 and/or RNF40), it plays a role in transcription regulation by catalyzing the monoubiquitination of histone H2B at 'Lys-120' to form H2BK120ub1. 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. In vitro catalyzes 'Lys-11'-, as well as 'Lys-48'- and 'Lys-63'-linked polyubiquitination. Required for postreplication repair of UV-damaged DNA. 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'. May be involved in neurite outgrowth.

Ube2B Polyclonal Antibody - Additional Information**Gene ID** 7320**Other Names**

Ubiquitin-conjugating enzyme E2 B, 2.3.2.23, E2 ubiquitin-conjugating enzyme B, RAD6 homolog

B, HR6B, hHR6B, Ubiquitin carrier protein B, Ubiquitin-conjugating enzyme E2-17 kDa, Ubiquitin-protein ligase B, UBE2B, RAD6B

Dilution

IHC-P ~ N/A
IHC-F ~ N/A
IF ~ 1:50 ~ 200
E ~ N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Ube2B Polyclonal Antibody - 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](http://www.uniprot.org/citations/16337599), PubMed:[17108083](http://www.uniprot.org/citations/17108083), PubMed:[17130289](http://www.uniprot.org/citations/17130289), PubMed:[1717990](http://www.uniprot.org/citations/1717990), PubMed:[20061386](http://www.uniprot.org/citations/20061386)). In vitro catalyzes 'Lys-11', as well as 'Lys-48'- and 'Lys-63'-linked polyubiquitination (PubMed:[20061386](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/16337599)). May play a role in DNA repair (PubMed:[8062904](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/17108083), PubMed:[17130289](http://www.uniprot.org/citations/17130289)). In association with the E3 enzyme UBR4, is involved in N-end rule-dependent protein degradation (PubMed:[38182926](http://www.uniprot.org/citations/38182926)). May be involved in neurite outgrowth (By similarity).

Cellular Location

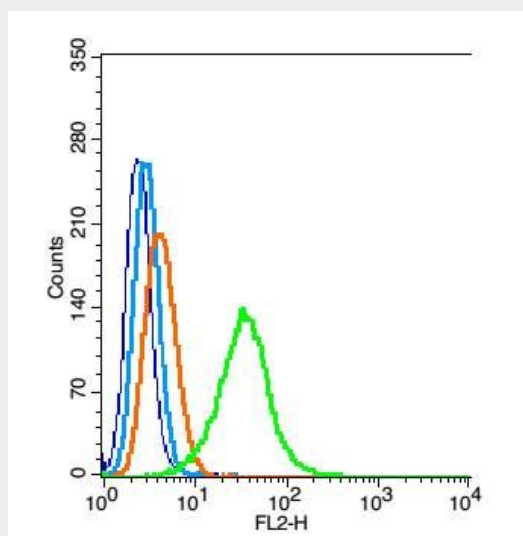
Cell membrane {ECO:0000250|UniProtKB:P63149}. Nucleus {ECO:0000250|UniProtKB:P63149}. Note=In peripheral neurons, expressed both at the plasma membrane and in nuclei {ECO:0000250|UniProtKB:P63149}

Ube2B Polyclonal Antibody - 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 Polyclonal Antibody - Images



Blank control: Hela(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice..

Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA(green).