

**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	<a href="#">P63146</a>
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
<b>Purity</b>	
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

<span class = "dilution\_IHC-P">IHC-P ~ ~ N/A</span><br \><span class = "dilution\_IHC-F">IHC-F ~ ~ N/A</span><br \><span class = "dilution\_IF">IF ~ ~ 1:50 ~ 200</span><br \><span class = "dilution\_E">E ~ ~ N/A</span>

#### 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:<a href="http://www.uniprot.org/citations/16337599" target="\_blank">16337599</a>, PubMed:<a href="http://www.uniprot.org/citations/17108083" target="\_blank">17108083</a>, PubMed:<a href="http://www.uniprot.org/citations/17130289" target="\_blank">17130289</a>, PubMed:<a href="http://www.uniprot.org/citations/1717990" target="\_blank">1717990</a>, PubMed:<a href="http://www.uniprot.org/citations/20061386" target="\_blank">20061386</a>). In vitro catalyzes 'Lys-11'-, as well as 'Lys-48'- and 'Lys-63'-linked polyubiquitination (PubMed:<a href="http://www.uniprot.org/citations/20061386" target="\_blank">20061386</a>). 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:<a href="http://www.uniprot.org/citations/16337599" target="\_blank">16337599</a>). 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:<a href="http://www.uniprot.org/citations/16337599" target="\_blank">16337599</a>). May play a role in DNA repair (PubMed:<a href="http://www.uniprot.org/citations/8062904" target="\_blank">8062904</a>). 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:<a href="http://www.uniprot.org/citations/17108083" target="\_blank">17108083</a>, PubMed:<a href="http://www.uniprot.org/citations/17130289" target="\_blank">17130289</a>). In association with the E3 enzyme UBR4, is involved in N-end rule-dependent protein degradation (PubMed:<a href="http://www.uniprot.org/citations/38182926" target="\_blank">38182926</a>). 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}

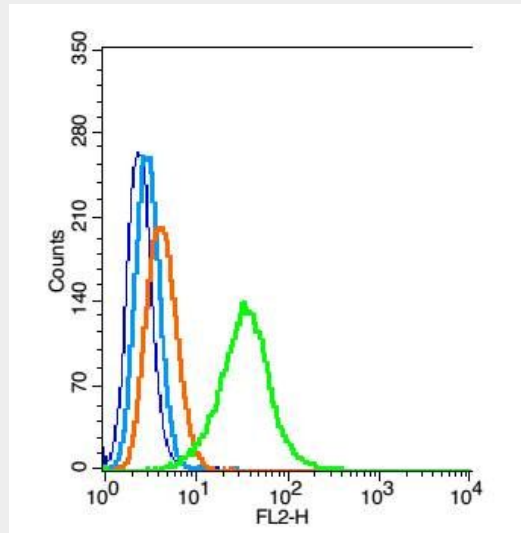
### Ube2B Polyclonal Antibody - Protocols

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  $\mu$ g in 100  $\mu$ L1X PBS containing 0.5% BSA(green).