

# Ube2B Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58138

#### **Product Information**

**Application** IHC-P, IHC-F, IF, E

Primary Accession
Reactivity
Rat, Pig
Host
Clonality
Polyclonal
Calculated MW
17312
Physical State
P63146
Rat, Pig
Rabbit
Polyclonal
17312
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.

## **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=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1

☐g/Test,ELISA=1:5000-10000

**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.

### **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:<u>16337599</u>). May play a role in DNA repair (PubMed:<u>8062904</u>). 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:<u>17108083</u>, PubMed:<u>17130289</u>). In association with the E3 enzyme UBR4, is involved in N-end rule-dependent protein degradation (PubMed:<u>38182926</u>). May be involved in neurite

outgrowth (By similarity).

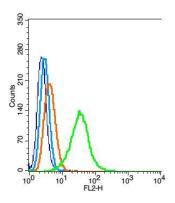
Cellular Location Cell membrane {ECO:0000250 | UniProtKB:P63149}. Nucleus

{ECO:0000250|UniProtKB:P63149}. Note=In peripheral neurons, expressed

both at the plasma membrane and in nuclei

{ECO:0000250 | UniProtKB:P63149}

# **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 µg in 100 µL1X PBS containing 0.5% BSA(green).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.