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#3848

## UBE2L3 Antibody

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 17	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P68036	<b>Entrez-Gene Id:</b> 7332
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### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

UBE2L3 Antibody detects endogenous levels of total UBE2L3 protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys145 of human UBE2L3 protein. Antibodies are purified by peptide affinity chromatography.

### Background

Protein ubiquitination requires the concerted action of the E1, E2, and E3 ubiquitin-conjugating enzymes. Ubiquitin is first activated through ATP-dependent formation of a thiol ester with ubiquitin-activating enzyme E1. The activated ubiquitin is then transferred to a thiol group of ubiquitin-carrier enzyme E2. The final step is the transfer of ubiquitin from E2 to an ε-amino group of the target protein lysine residue, which is mediated by ubiquitin-ligase enzyme E3 (1). UBCH7 (also called UBE2L3) is an 17 kDa ubiquitin-conjugating enzyme E2 (3). It can interact with different E3 ligase including E6-AP, SRC-1, c-Cbl, parkin and mediates regulation of a wide variety signaling pathways and is associated with diseases such as Parkinson's disease (4-7).

### Background References

- Hershko, A. (1988) *J Biol Chem* 263, 15237-40.
- Rajendra, R. et al. (2004) *J. Biol. Chem.* 279, 36440-36444.
- Nuber, U. et al. (1996) *J. Biol. Chem.* 271, 2795-2800.
- Verma, S. et al. (2004) *Mol. Cell Biol.* 24, 8716-8726.
- Garside, H. et al. (2006) *J. Endocrinol.* 190, 621-629.
- Shimura, H. et al. (2001) *Science* 293, 263-269.
- Simmons, A. et al. (2005) *Immunity* 23, 621-634.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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