

**UBE2L3 Antibody**

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

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

**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). UBC7 (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**

1. Herskho, A. (1988) *J Biol Chem* 263, 15237-40.
2. Rajendra, R. et al. (2004) *J. Biol. Chem.* 279, 36440-36444.
3. Nuber, U. et al. (1996) *J. Biol. Chem.* 271, 2795-2800.
4. Verma, S. et al. (2004) *Mol. Cell Biol.* 24, 8716-8726.
5. Garside, H. et al. (2006) *J. Endocrinol.* 190, 621-629.
6. Shimura, H. et al. (2001) *Science* 293, 263-269.
7. 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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