

UBE2L3 Antibody

✓ 100 µl (10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #7332
Swiss-Prot Acc. #P68036

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	17 kDa	Rabbit**

Background: Protein ubiquitylation requires the concerted action of the E1, E2 and E3 ubiquitin-conjugating enzymes. Ubiquitin is first activated through an ATP-dependent formation of a thiol ester with E1. The activated ubiquitin is then transferred to a thiol-group of ubiquitin-conjugation 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-conjugating enzyme E3 (1).

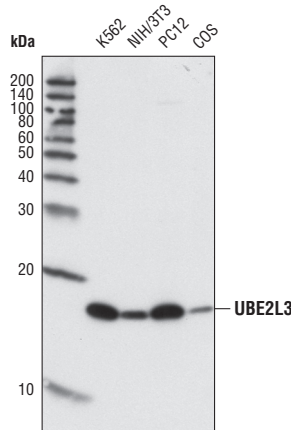
UBCH7 (also called UBE2L3) is an 17 kDa ubiquitin-conjugating enzyme E2 (3). It can interact with different E3 ligase including E6-AP, SRC-1, c-Cbl, parkin and mediates regulation of a wide variety signaling pathways and is associated with diseases such as Parkinson's disease (4-7).

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 References:

- (1) Hershko, A. (1988) *J. Biol. Chem.* 263, 15237-15240.
- (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.



Western blot analysis of extracts from various cell types using UBE2L3 Antibody.

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.