

#8755 Store at -20C

## UBR5 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M Mk	Endogenous	300	Rabbit	#O95071	51366

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### 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

UBR5 Antibody recognizes endogenous levels of total UBR5 protein.

### Species predicted to react based on 100% sequence homology:

Dog, Pig

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human UBR5 protein. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

Human E3 identified by differential display (UBR5/EDD) is a HECT domain-containing ubiquitin E3 ligase of the N-end rule pathway that promotes the ubiquitination and proteasomal degradation of proteins harboring N-degrons (1-3). UBR5 represents an ortholog of HYD, the *Drosophila* hyperplastic discs tumor suppressor gene product but has been found to be overexpressed in breast and ovarian cancers, suggesting a possible role in promoting tumor development (4,5). Research studies have demonstrated that UBR5 is functional within the nucleus as it participates in DNA damage signaling by controlling the activities of Chk2, TopBP1, and RNF168 (6-9). Recently, UBR5 was shown to play a novel role in immune cell function by regulating RORYt stability and IL-17 production by Th17 cells (10).

### Background References

1. Sriram, S.M. et al. (2011) *Nat Rev Mol Cell Biol* 12, 735-47.
2. Callaghan, M.J. et al. (1998) *Oncogene* 17, 3479-91.
3. Tasaki, T. et al. (2005) *Mol Cell Biol* 25, 7120-36.
4. Clancy, J.L. et al. (2003) *Oncogene* 22, 5070-81.
5. O'Brien, P.M. et al. (2008) *Br J Cancer* 98, 1085-93.
6. Munoz, M.A. et al. (2007) *Cell Cycle* 6, 3070-7.
7. Henderson, M.J. et al. (2006) *J Biol Chem* 281, 39990-40000.
8. Honda, Y. et al. (2002) *J Biol Chem* 277, 3599-605.
9. Gudjonsson, T. et al. (2012) *Cell* 150, 697-709.
10. Rutz, S. et al. (2015) *Nature* 518, 417-21.

### 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

**WB:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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