

#13789 Store at -20C

UFD1 Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	40	Rabbit	#Q92890	7353

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

1:100

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

UFD1 Antibody recognizes endogenous levels of total UFD1 protein.

Species predicted to react based on 100% sequence homology:

Bovine, Dog

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human UFD1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The ubiquitin fusion degradation 1 (UFD1) adaptor protein is a component of a protein complex essential for degradation of misfolded proteins by the endoplasmic reticulum-associated protein degradation (ERAD) pathway (1). The UFD1 protein contains a pair of conserved, amino-terminal ubiquitin-binding sites responsible for binding mono- and polyubiquitin molecules (2,3). The carboxy-terminal region of UFD1 contains binding sites for both the adapter protein NPL4 and the AAA ATPase VCP (4). The UFD1-NPL4 heterodimer binds VCP to create a protein complex responsible for export of misfolded proteins from the ER to the cytoplasm for ubiquitin-mediated degradation (5-7). The same protein complex may also be involved in disassembly of the spindle apparatus following mitosis (8).

Background References

1. Ye, Y. et al. (2001) *Nature* 414, 652-6.
2. Ye, Y. et al. (2003) *J Cell Biol* 162, 71-84.
3. Park, S. et al. (2005) *Structure* 13, 995-1005.
4. Bruderer, R.M. et al. (2004) *J Biol Chem* 279, 49609-16.
5. Meyer, H.H. et al. (2000) *EMBO J* 19, 2181-92.
6. Meyer, H.H. et al. (2002) *EMBO J* 21, 5645-52.
7. Pye, V.E. et al. (2007) *Proc Natl Acad Sci U S A* 104, 467-72.
8. Cao, K. and Zheng, Y. (2004) *Cell Cycle* 3, 422-4.

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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