

**UBQLN2 (D7R2Z) Rabbit mAb**

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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, IP	H M R Mk	Endogenous	70	Rabbit IgG	#Q9UHD9	29978

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:100

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

UBQLN2 (D7R2Z) Rabbit mAb recognizes endogenous levels of total UBQLN2 protein. This antibody does not cross-react with UBQLN1 protein.

**Species predicted to react based on 100% sequence homology**

Dog

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human UBQLN2 protein.

**Background**

Ubiquilin 2 (UBQLN2) is a broadly expressed member of the ubiquilin family of ubiquitin receptor proteins. UBQLN2 is a type 2 ubiquitin-like (UBL) protein that contains an amino-terminal UBL domain, multiple heat shock chaperonin-binding (STI) motifs, several PXX repeats, and a carboxy-terminal ubiquitin-associated (UBA) domain (1-3). Research studies indicate that the UBL domain of UBQLN2 can interact with proteasome subunits (4). The UBA domain of UBQLN2 can interact with ubiquitinated proteins and the autophagosome and allows UBQLN2 to participate in the ubiquitin-proteasome and autophagy pathways (5-8). Mutations in the PXX repeat region of the corresponding *UBQLN2* gene are associated with an X-linked form of amyotrophic lateral sclerosis (ALS15) and dementia with reduced penetrance in females (9).

**Background References**

1. Wu, A.L. et al. (1999) *Mol Cell* 4, 619-25.
2. Kaye, F.J. et al. (2000) *FEBS Lett* 467, 348-55.
3. Mah, A.L. et al. (2000) *J Cell Biol* 151, 847-62.
4. Kleijnen, M.F. et al. (2000) *Mol Cell* 6, 409-19.
5. Wilkinson, C.R. et al. (2001) *Nat Cell Biol* 3, 939-43.
6. N'Diaye, E.N. et al. (2009) *EMBO Rep* 10, 173-9.
7. N'Diaye, E.N. et al. (2009) *Autophagy* 5, 573-5.
8. Lee, D.Y. et al. (2013) *EMBO Rep* 14, 373-81.
9. Deng, H.X. et al. (2011) *Nature* 477, 211-5.

**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 **IP:** Immunoprecipitation

**Cross-Reactivity Key**

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

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