

ADRM1 (D9Z1U) Rabbit mAb

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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #Q16186	Entrez-Gene Id: 11047
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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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

ADRM1 (D9Z1U) Rabbit mAb recognizes endogenous levels of total ADRM1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human ADRM1 protein.

Background

Currently, there are five ubiquitin receptors associated with the proteasome: two proteasome subunits, Rpn10/S5a/PSMD4 and Rpn13/ADRM1 (Adhesion-regulating molecule 1), and three families of shuttling factors, Rad23, Dsk2, and Ddi1. ADRM1 is a ubiquitin receptor of the proteasome (1,2) that binds ubiquitin via a pleckstrin homology domain known as the pleckstrin-like receptor for ubiquitin (Pru) domain. The carboxy-terminal domain of mammalian ADRM1 serves to bind and enhance the isopeptidase activity of UCHL5/UCH37 (3-5), perhaps serving as a mechanism to accelerate ubiquitin chain disassembly. A murine *Adrm1* knockout results in defective gametogenesis, thus highlighting a physiologic role for endogenous ADRM1 in mammalian development (6).

Background References

- Schreiner, P. et al. (2008) *Nature* 453, 548-52.
- Husnjak, K. et al. (2008) *Nature* 453, 481-8.
- Yao, T. et al. (2006) *Nat Cell Biol* 8, 994-1002.
- Hamazaki, J. et al. (2006) *EMBO J* 25, 4524-36.
- Qiu, X.B. et al. (2006) *EMBO J* 25, 5742-53.
- Al-Shami, A. et al. (2010) *PLoS One* 5, e13654.

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 nonfat dry milk, 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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