

ADRM1 (D9Z1U) Rabbit mAb



Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

rev. 05/12/16

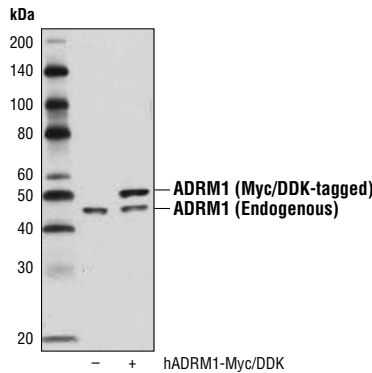
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W, IP Endogenous	Species Cross-Reactivity* H, M, R, Mk	Molecular Wt. 45 kDa	Isotype Rabbit IgG**
-------------------------------------	--	-------------------------	-------------------------

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).

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.



Western blot analysis of extracts from 293T cells, mock transfected (-) or transfected with a construct expressing Myc/DDK-tagged full-length human ADRM1 (hADRM1-Myc/DDK; +), using ADRM1 (D9Z1U) Rabbit mAb.

Entrez-Gene ID #11047
Swiss-Prot Acc. #Q16186

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.

*Species cross-reactivity is determined by western blot.

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

Recommended Antibody Dilutions:

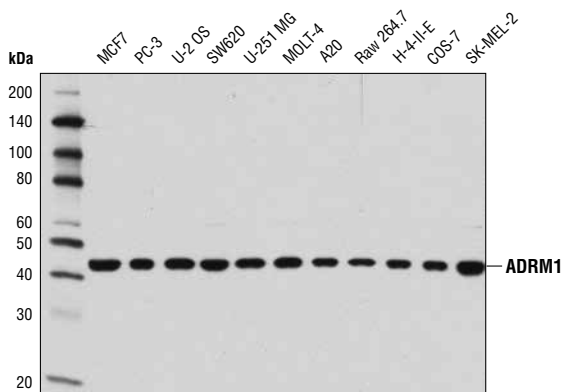
Western blotting	1:1000
Immunoprecipitation	1:50

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

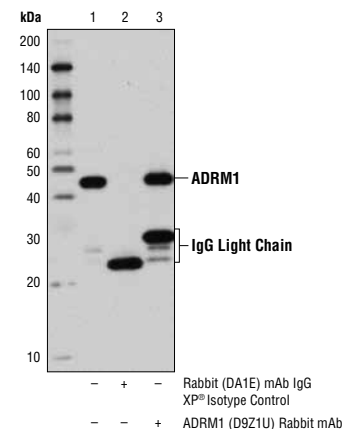
Please visit www.cellsignal.com for a complete listing of recommended complementary products.

Background References:

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



Western blot analysis of extracts from various cell lines using ADRM1 (D9Z1U) Rabbit mAb.



Immunoprecipitation of ADRM1 from 293T cell extracts using Rabbit (DA1E) mAb IgG XP[®] Isotype Control #3900 (lane 2) or ADRM1 (D9Z1U) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot detection was performed using ADRM1 (D9Z1U) Rabbit mAb.

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.