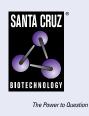
## SANTA CRUZ BIOTECHNOLOGY, INC.

# ADRM1 (D-12): sc-271398



#### BACKGROUND

ADRM1 (adhesion-regulating molecule 1), also known as GP110, ARM-1 or Rpn13, is a 407 amino acid protein that localizes to both the nucleus and the cytoplasm and is thought to be involved in protein recruitment and cell adhesion. An integral membrane protein, ADRM1 functions to recruit UCH-L5, a deubiquitinating enzyme, to the 26S Proteasome, and once at the proteasome it promotes the activity of UCH-L5. Additionally, ADRM1 is thought to mediate lymphocyte adhesion in endothelial cells and may thus play a role in lymphocyte homing. ADRM1 expression is induced by IFN- $\gamma$  in some cancer cell lines and its expression is upregulated in other metastatic cells, suggesting a role in carcinogenesis. Two isoforms of ADRM1 exist due to alternative splicing events.

#### REFERENCES

- 1. Shimada, S., et al. 1994. Molecular cloning and characterization of the complementary DNA of an  $M_r$  110,000 antigen expressed by human gastric carcinoma cells and upregulated by  $\gamma$ -interferon. Cancer Res. 54: 3831-3836.
- Simins, A.B., et al. 1999. Functional cloning of ARM-1, an adhesion-regulating molecule upregulated in metastatic tumor cells. Clin. Exp. Metastasis 17: 641-648.
- Lamerant, N. and Kieda, C. 2005. Adhesion properties of adhesion-regulating molecule 1 protein on endothelial cells. FEBS J. 272: 1833-1844.
- Hamazaki, J., et al. 2006. A novel proteasome interacting protein recruits the deubiquitinating enzyme UCH-37 to 26S proteasomes. EMBO J. 25: 4524-4536.
- Cherix, N., et al. 2006. A Phg2-ADRM1 pathway participates in the nutrientcontrolled developmental response in *Dictyostelium*. Mol. Biol. Cell 17: 4982-4987.

#### **CHROMOSOMAL LOCATION**

Genetic locus: ADRM1 (human) mapping to 20q13.33; Adrm1 (mouse) mapping to 2 H4.

#### SOURCE

ADRM1 (D-12) is a mouse monoclonal antibody raised against amino acids 1-205 mapping at the N-terminus of ADRM1 of human origin.

#### PRODUCT

Each vial contains 200  $\mu g$  IgG\_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ADRM1 (D-12) is available conjugated to agarose (sc-271398 AC), 500  $\mu$ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-271398 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271398 PE), fluorescein (sc-271398 FITC), Alexa Fluor<sup>®</sup> 488 (sc-271398 AF488), Alexa Fluor<sup>®</sup> 546 (sc-271398 AF546), Alexa Fluor<sup>®</sup> 594 (sc-271398 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-271398 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-271398 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-271398 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

#### **APPLICATIONS**

ADRM1 (D-12) is recommended for detection of ADRM1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ADRM1 siRNA (h): sc-72453, ADRM1 siRNA (m): sc-72454, ADRM1 shRNA Plasmid (h): sc-72453-SH, ADRM1 shRNA Plasmid (m): sc-72454-SH, ADRM1 shRNA (h) Lentiviral Particles: sc-72453-V and ADRM1 shRNA (m) Lentiviral Particles: sc-72454-V.

Molecular Weight of ADRM1 native protein: 50 kDa.

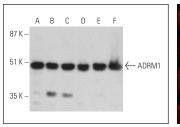
Molecular Weight of ADRM1 posttranslationally modified protein: 42 kDa.

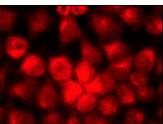
Positive Controls: HeLa whole cell lysate: sc-2200, U-87 MG cell lysate: sc-2411 or A-375 cell lysate: sc-3811.

### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

#### DATA





ADRM1 (D-12) HRP: sc-271398 HRP. Direct western blot analysis of ADRM1 expression in T24 (A), U-87 MG (B), A-375 (C), HeLa (D), Raji (E) and K-562 (F) whole cell bycates

ADRM1 (D-12): sc-271398. Immunofluorescence staining of methanol-fixed HeLa cells showing cvtoplasmic and nuclear localization.

#### **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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