

# ADRM1 (F-12): sc-166754

## 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

ADRM1 (F-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<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4° C, **\*\*DO 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.

## APPLICATIONS

ADRM1 (F-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), immunohistochemistry (including paraffin-embedded sections) (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.

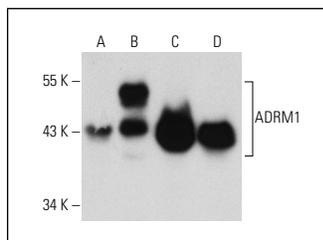
Molecular Weight of posttranslationally modified ADRM1 protein: 42 kDa.

Positive Controls: ADRM1 (h2): 293T Lysate: sc-172201, HeLa whole cell lysate: sc-2200 or Hep G2 cell lysate: sc-2227.

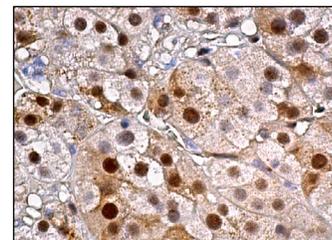
## RECOMMENDED SUPPORT REAGENTS

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™ Molecular Weight Standards: sc-2035, UltraCruz® 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® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG $\kappa$  BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



ADRM1 (F-12): sc-166754. Western blot analysis of ADRM1 expression in non-transfected 293T: sc-117752 (A), human ADRM1 transfected 293T: sc-172201 (B), HeLa (C) and Hep G2 (D) whole cell lysates.



ADRM1 (F-12): sc-166754. Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing nuclear and cytoplasmic staining of glandular cells.

## SELECT PRODUCT CITATIONS

- Jiang, R.T., et al. 2017. Early and consistent overexpression of ADRM1 in ovarian high-grade serous carcinoma. *J. Ovarian Res.* 10: 53.
- Zhou, T., et al. 2017. Antimicrobial activity and synergism of ursolic acid 3-O- $\alpha$ -L-arabinopyranoside with oxacillin against methicillin-resistant *Staphylococcus aureus*. *Int. J. Mol. Med.* 40: 1285-1293.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.