

ADM (C-20): sc-16496

BACKGROUND

Adrenomedullin (ADM), a vasodilator produced by most contractile cells, is characterized by persistent hypotensive activity. ADM is involved in the regulation of fluid and electrolyte homeostasis and the maintenance of cardiovascular functioning, and in hypertensive patients, the level of ADM in plasma is upregulated. Natriuresis is a common systemic manifestation of aneurysmal subarachnoid hemorrhage. ADM has strong natriuretic actions and ADM-induced natriuresis is caused by an increase in glomerular filtration rate and a decrease in distal tubular sodium reabsorption. ADM is present both in the periphery and brain, and this peptide can exert central effects such as decreasing food ingestion.

CHROMOSOMAL LOCATION

Genetic locus: ADM (human) mapping to 11p15.4; Adm (mouse) mapping to 7 F1.

SOURCE

ADM (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ADM of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-16496 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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

ADM (C-20) is recommended for detection of ADM precursor and active peptide of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

ADM (C-20) is also recommended for detection of ADM precursor and active peptide in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ADM siRNA (h): sc-39273, ADM siRNA (m): sc-39274, ADM shRNA Plasmid (h): sc-39273-SH, ADM shRNA Plasmid (m): sc-39274-SH, ADM shRNA (h) Lentiviral Particles: sc-39273-V and ADM shRNA (m) Lentiviral Particles: sc-39274-V.

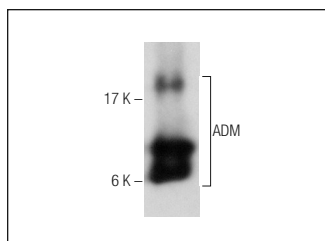
Molecular Weight of ADM precursor: 22 kDa.

Molecular Weight of ADM active peptide: 6 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ADM (C-20): sc-16496. Western blot analysis of human recombinant ADM.

SELECT PRODUCT CITATIONS

1. Uzan, B., et al. 2006. A critical role for adrenomedullin-calcitonin receptor-like receptor in regulating rheumatoid fibroblast-like synoviocyte apoptosis. *J. Immunol.* 176: 5548-5558.
2. Hipólito, U.V., et al. 2011. Chronic ethanol consumption reduces adrenomedullin-induced relaxation in the isolated rat aorta. *Alcohol* 45: 805-814.
3. Rocha, J.T., et al. 2012. Ethanol consumption alters the expression and reactivity of adrenomedullin in the rat mesenteric arterial bed. *Alcohol* 47: 9-17.
4. Li, R., et al. 2013. Imbalanced network biomarkers for traditional Chinese medicine Syndrome in gastritis patients. *Sci. Rep.* 3: 1543.
5. Dai, X., et al. 2013. Elevated expression of adrenomedullin is correlated with prognosis and disease severity in osteosarcoma. *Med. Oncol.* 30: 347.

PROTOCOLS

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Try **ADM (027-01-1): sc-80462**, our highly recommended monoclonal alternative to ADM (C-20).