ADM2 (G-13): sc-86272



The Power to Question

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 in the maintenance of cardio-vascular functioning. 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. 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 can exert central effects such as decreasing food ingestion. ADM2 (adrenomedullin-2), also known as AM2, IMDS or IMDL, is a 148 amino acid secreted protein that belongs to the adrenomedullin family of calcitonin-related peptide hormones and is expressed in the esophagus, stomach, jejunum, ileum, ileocecum, ascending colon, transverse colon, descending colon and rectum. ADM2 activates the cAMP-dependent pathway and may play a role in regulating gastrointestinal and cardiovascular bioactivities.

REFERENCES

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- 2. Pan, C.S., et al. 2005. Cardiovascular effects of newly discovered peptide intermedin/adrenomedullin 2. Peptides 26: 1640-1646.
- Takahashi, K., et al. 2006. Immunocytochemical localization of adrenomedullin 2/intermedin-like immunoreactivity in human hypothalamus, heart and kidney. Peptides 27: 1383-1389.
- 4. Chauhan, M., et al. 2007. Adrenomedullin-2, a novel Calcitonin/Calcitonin-gene-related peptide family peptide, relaxes rat mesenteric artery: influence of pregnancy. Endocrinology 148: 1727-1735.
- Kindt, F., et al. 2007. Intermedin: a skin peptide that is downregulated in atopic dermatitis. J. Invest. Dermatol. 127: 605-613.
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CHROMOSOMAL LOCATION

Genetic locus: ADM2 (human) mapping to 22q13.33; Adm2 (mouse) mapping to 15 E3.

SOURCE

ADM2 (G-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of ADM2 of human origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86272 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ADM2 (G-13) is recommended for detection of ADM2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

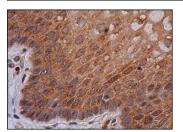
Suitable for use as control antibody for ADM2 siRNA (h): sc-72452, ADM2 siRNA (m): sc-140883, ADM2 shRNA Plasmid (h): sc-72452-SH, ADM2 shRNA Plasmid (m): sc-140883-SH, ADM2 shRNA (h) Lentiviral Particles: sc-72452-V and ADM2 shRNA (m) Lentiviral Particles: sc-140883-V.

Molecular Weight of ADM2: 16 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



ADM2 (G-13): sc-86272. Immunoperoxidase staining of formalin fixed, paraffin-embedded human vagina tissue showing cytoplasmic staining of squamous epithelial cells

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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