BACKGROUND

Adrenomedullin (AM), α- and β-calcitonin gene-related peptide (CGRP), calcitonin (CT), and Amylin are homologous polypeptides with overlapping biological actions such as vasodilatation and inhibition of bone resorption. Amylin (Islet/Insulinoma amyloid polypeptide or IAPP) is a 37-amino acid monomeric polypeptide isolated from pancreatic amyloid. This protein is a major component of amyloid-rich extracts of three type 2 diabetic patients. IAPP has cysteine residues in positions 2 and 7, a feature found in all known calcitonin gene-related peptides. IAPP shows 46% amino acid sequence homology with CGRP II. Since IAPP has been demonstrated immunohistochemically in normal β cells of several mammals, it probably has an important role in respect to pancreatic islet function. The gene which encodes Amylin maps to human chromosome 12p12.1.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: IAPP (human) mapping to 12p12.1; Iapp (mouse) mapping to 6G2.

SOURCE

Amylin (H-50) is a rabbit polyclonal antibody raised against amino acids 40-89 mapping at the C-terminus of Amylin precursor 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.

STORAGE

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

APPLICATIONS

Amylin (H-50) is recommended for detection of Amylin precursor and active peptide of human and, to a lesser extent, mouse and rat 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), 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).

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA


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