SANTA CRUZ BIOTECHNOLOGY, INC.

Peptide YY (029-01-1): sc-80499

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Members of the Neuropeptide Y (NPY) hormone family include NPY, PP (pancreatic polypeptide) and Peptide YY. The NPY hormone family associates with the complementary Neuropeptide Y-receptor family, which is part of the G protein-coupled receptor superfamily. NPY is expressed throughout the central and peripheral nervous systems and is one of the most abundant neuropeptides. Peptide YY (PPY), also designated peptide tyrosine tyrosine, is a secreted protein. This gut protein acts as an inhibitor of exocrine pancreatic secretion, jejunal motility and colonic motility. It also plays a role in vasoconstriction.

REFERENCES

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2. Eberlein, G.A., Eysselein, V.E., Schaeffer, M., Layer, P., Grandt, D., Goebell, H., Niebel, W., Davis, M., Lee, T.D., Shively, J.E. and Reeve, J.R., Jr. 1989. A new molecular form of PYY: structural characterization of human PYY(3-36) and PYY(1-36). Peptides 10: 797-803.
3. Kohri, K., Nata, K., Yonekura, H., Nagai, A., Konno, K. and Okamoto, H. 1993. Cloning and structural determination of human Peptide YY cDNA and gene. Biochim. Biophys. Acta 1173: 345-349.
4. Abbott, C.R., Monteiro, M., Small, C.J., Sajedi, A., Smith, K.L., Parkinson, J.R., Ghatei, M.A. and Bloom, S.R. 2005. The inhibitory effects of peripheral administration of Peptide YY(3-36) and glucagon-like peptide-1 on food intake are attenuated by ablation of the vagal-brainstem-hypothalamic pathway. Brain Res. 1044: 127-131.
5. Renshaw, D. and Batterham, R.L. 2005. Peptide YY: a potential therapy for obesity. Curr. Drug Targets 6: 171-179.
6. Talebizadeh, Z., Kibiryeva, N., Bittel, D.C. and Butler, M.G. 2005. Ghrelin, Peptide YY and their receptors: gene expression in brain from subjects with and without Prader-Willi syndrome. Int. J. Mol. Med. 15: 707-711.

CHROMOSOMAL LOCATION

Genetic locus: PYY (human) mapping to 17q21.31.

SOURCE

Peptide YY (029-01-1) is a mouse monoclonal antibody raised against Peptide YY of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml 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

Peptide YY (029-01-1) is recommended for detection of Peptide YY of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with NPY or Pancreatic Polypeptide.

Suitable for use as control antibody for Peptide YY siRNA (h): sc-61320, Peptide YY shRNA Plasmid (h): sc-61320-SH and Peptide YY shRNA (h) Lentiviral Particles: sc-61320-V.

Molecular Weight of Peptide YY: 11 kDa.

SELECT PRODUCT CITATIONS

1. Zhang, T., Ahn, K., Emerick, B., Modarai, S.R., Opdenaker, L.M., Palazzo, J., Schleiniger, G., Fields, J.Z. and Boman, B.M. 2020. APC mutations in human colon lead to decreased neuroendocrine maturation of ALDH+ stem cells that alters GLP-2 and SST feedback signaling: clue to a link between WNT and retinoic acid signalling in colon cancer development. PLoS ONE 15: e0239601.

RESEARCH USE

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

PROTOCOLS

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