

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

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

1. Tatemoto, K., Nakano, I., Makk, G., Angwin, P., Mann, M., Schilling, J. and Go, V.L. 1988. Isolation and primary structure of human Peptide YY. *Biochem. Biophys. Res. Commun.* 157: 713-717.
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 17q21.1.

SOURCE

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

PRODUCT

Each vial contains 100 µg IgG₁ 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.

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.