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PYY Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5103B

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	P10082
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21254
Calculated MW	11145
Antigen Region	67-94

Additional Information

Gene ID	5697
Other Names	Peptide YY, PYY, PYY-I, PYY
Target/Specificity	This PYY antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 67-94 amino acids from the C-terminal region of human PYY.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PYY Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PYY
Function	[Peptide YY]: Ligand for neuropeptide Y receptor type 1 (NPY1R) and neuropeptide Y receptor type 2 (NPY2R) (PubMed:1317848, PubMed:7592910, PubMed:36525977). Also binds NPY5R (By similarity). Receptor binding induces adenylate cyclase-inhibiting G protein-coupled receptor signaling,

resulting in inhibition of cAMP production (PubMed:1317848, PubMed:7592910). Receptor activation by PYY also leads to an increase of intracellular Ca(2+) levels (PubMed:1317848, PubMed:36525977, PubMed:7592910). This gut peptide inhibits exocrine pancreatic secretion (By similarity). Involved in the regulation of colonic antisecretory tone, and colonic contractility (By similarity).

Cellular Location [Peptide YY]: Secreted

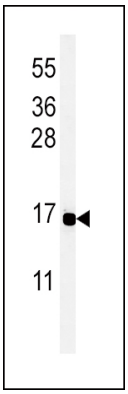
Background

PYY gut peptide inhibits exocrine pancreatic secretion, has a vasoconstrictory action and inhibitis jejunal and colonic mobility.

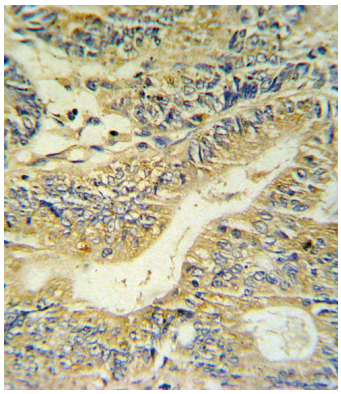
References

Ueda, S.Y., et al. J. Endocrinol. 203(3):357-364(2009)
Shih, P.A., et al. J. Clin. Endocrinol. Metab. 94(11):4557-4566(2009)
Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009)

Images

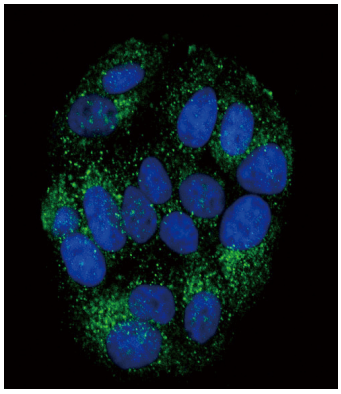


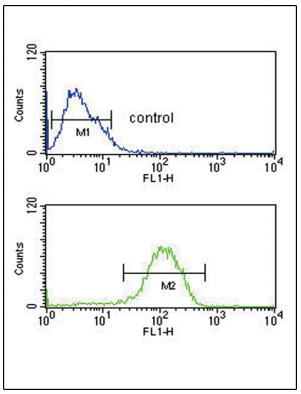
Western blot analysis of PYY Antibody (C-term) (Cat. #AP5103b) in MCF-7 cell line lysates (35ug/lane).PYY (arrow) was detected using the purified Pab.



PYY Antibody (C-term) (Cat. #AP5103b) IHC analysis in formalin fixed and paraffin embedded colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PYY Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Confocal immunofluorescent analysis of PYY Antibody (C-term)(Cat. #AP5103b) with MCF-7 cell followed by Alexa Fluor寨?488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).





PYY Antibody (C-term) (Cat. #AP5103b) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- G protein βγ subunits inhibit TRPM3 ion channels in sensory neurons.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.