ANTIBODYSHOP®

PRODUCT SPECIFICATION

Anti-Peptide YY (human, PYY)

Subclass: IgG1/k

PRODUCT NO. **ABS 029-01**

PRESENTATION

Preparation:	Protein-A/G purified
Content:	Available in 200 µL and 1 mL, 1 mg/mL
Solvent:	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide
Storage:	In the dark at 4-8ºC

ANTIGEN

PYY (peptide tyrosine-tyrosine amide) is a 36 amino-acid member of the pancreatic polypeptide (PP) family of peptides (NPY, PYY and PP). While NPY is localized in neurons (both in the central and peripheral nervous system) and PP in the pancreatic islets, PYY is found in both neurons and the gut. PYY is released in response to food intake from the same endocrine cells (L cells) in the intestinal mucosa as the glucagon-like peptides and inhibits gall bladder secretion, gut motility and pancreatic secretion. These effects are similar to those of PP and overlap with the gut inhibitory activity of GLP-1.

IMMUNOGEN

Synthetic human PYY coupled to carrier with glutaraldehyde

SPECIFICITY

ABS 029-01 binds human PYY. Cross-reactivity with neuropeptide Y (NPY) or pancreatic polypeptide (PP) in solution was <0.1%.

EPITOPE SPECIFICITY

Not determined

REACTIVITY

ABS 029-01 binds free PYY in solution.
ABS 029-01 reacts in ELISA with PYY coated directly onto the microtiter well.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

SP2mIL6.

IMMUNIZATION

Female NMRIxBALB/c mice immunized i.p. with immunogen adsorbed onto aluminum hydroxide gel and emulsified in Freund's incomplete adjuvant.

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:16,000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 1 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

CONDITIONS