

# Anti-Peptide YY Picoband Antibody

Catalog # ABO11632

## Product Information

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|--------------------------|----------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                     |
| <b>Primary Accession</b> | <a href="#">Q9EPS2</a>                                                                 |
| <b>Host</b>              | Rabbit                                                                                 |
| <b>Reactivity</b>        | Mouse                                                                                  |
| <b>Clonality</b>         | Polyclonal                                                                             |
| <b>Format</b>            | Lyophilized                                                                            |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Peptide YY(PYY) detection. Tested with WB in Mouse. |

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## Additional Information

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| <b>Gene ID</b>                  | 217212                                                                                                                                                                                                                                              |
| <b>Other Names</b>              | Peptide YY, Pyy                                                                                                                                                                                                                                     |
| <b>Calculated MW</b>            | 11064                                                                                                                                                                                                                                               |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Mouse                                                                                                                                                                                                                  |
| <b>Subcellular Localization</b> | Secreted.                                                                                                                                                                                                                                           |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                           |
| <b>Protein Name</b>             | Peptide YY                                                                                                                                                                                                                                          |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                                                                                          |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence in the middle region of mouse Peptide YY (29-64aa YPAKPEAPGEDASPEELSRYYASLRHYLNLVTRQRY), different from the related human sequence by three amino acids, and identical to the related rat sequence. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                                                        |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                                                                             |
| <b>Storage</b>                  | At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.                                                                 |

## Protein Information

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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | Pyy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Function          | [Peptide YY]: Ligand for neuropeptide Y receptor type 1 (NPY1R) and neuropeptide Y receptor type 2 (NPY2R). Also binds NPY5R. Receptor binding induces adenylate cyclase-inhibiting G protein-coupled receptor signaling, resulting in inhibition of cAMP production. Receptor activation by PYY also leads to an increase of intracellular Ca(2+) levels (By similarity). This gut peptide inhibits exocrine pancreatic secretion (By similarity). Involved in the regulation of colonic antisecretory tone, and colonic contractility (PubMed: <a href="#">21457230</a> ). |
| Cellular Location | [Peptide YY]: Secreted {ECO:0000250 UniProtKB:P10082}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Background

Peptide YY (PYY), also known as peptide tyrosine tyrosine, is a peptide that in humans is encoded by the PYY gene. This gene encodes a member of the neuropeptide Y (NPY) family of peptides. The encoded preproprotein is proteolytically processed to generate two alternative peptide products that differ in length by three amino acids. These peptides, secreted by endocrine cells in the gut, exhibit different binding affinities for each of the neuropeptide Y receptors. Binding of the encoded peptides to these receptors mediates regulation of pancreatic secretion, gut mobility and energy homeostasis. Rare variations in this gene could increase susceptibility to obesity and elevated serum levels of the encoded peptides may be associated with anorexia nervosa.

## Images



Western blot analysis of Peptide YY expression in mouse spleen extract (lane 1) and mouse liver extract (lane 2). Peptide YY at 19KD was detected using rabbit anti-Peptide YY Antigen Affinity purified polyclonal antibody (Catalog # ABO11632) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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