

## Anti-PYY(3-36) (peptide tyrosine-tyrosine amide, 3-36)

CAT. NO. ABS 051-04

### OVERVIEW

|                     |  |             |              |
|---------------------|--|-------------|--------------|
| Product Name        | Anti-PYY(3-36) (peptide tyrosine-tyrosine amide, 3-36) | Conjugation | Unconjugated |
| Description         | Mouse monoclonal antibody                              | Host        | Mouse        |
| Isotype             | IgG2a/k  | Clone       | 4            |
| Tested Applications | ELISA, WB  |             |              |

### SPECIFICITY

**Specificity** ABS 051-04 binds human PYY(3-36). Based on inhibition ELISA, ABS 051-04 shows no cross-reaction with PYY(1-36) or NPY.

The epitope lies within residues 3-12 of human PYY.

|           |  |         |      |
|-----------|--|---------|------|
| Immunogen | Synthetic N-terminal fragment of human PYY(3-36) coupled to carrier. | Gene ID | 5697 |
|-----------|--|---------|------|

**Target** Peptide tyrosine-tyrosine amide (3-36), or PYY(3-36), is a major metabolite of the gut hormone PYY and is produced by the action of dipeptidyl peptidase IV on PYY in the intestinal brush border and in the circulation. PYY(3-36) is a potent inhibitor of food intake in rats and humans, acting selectively on the Y2 receptor to inhibit orexigenic NPY neurons in the arcuate nucleus, thus disinhibiting anorexigenic POMC neurons. The anorexigenic effect of PYY(3-36) is additive to that of the co-secreted gut hormone GLP-1.

|                                |       |                                |                      |
|--------------------------------|-------|--------------------------------|----------------------|
| Species Reactivity<br>POSITIVE | Human | Species Reactivity<br>NEGATIVE | Mouse, Rat, Dog, Pig |
|--------------------------------|-------|--------------------------------|----------------------|

### PROPERTIES

|                   |   |                    |                 |
|-------------------|---|--------------------|-----------------|
| Form              | Liquid  | Unit Size          | 0,4 mL and 1 mL |
| Concentration     | 1 mg/mL ±15%, See CoA for lot details                                   |                    |                 |
| Purification      | Protein A or Protein G purified   | Purification Notes | BSA free        |
| Storage buffer    | 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide |                    |                 |
| Storage condition | 2-8°C without exposure to light   |                    |                 |
| Safety            | Wear protective clothing  |                    |                 |

### TESTED APPLICATIONS

|       |   |
|-------|---|
| ELISA | ABS 051-04 binds free PYY(3-36) in solution. An ELISA dilution guideline of 1/20,000 applies to PYY(3-36) coated directly at 1 µg/mL. ABS 051-04 as a capture antibody forms a sandwich ELISA antibody pair with biotinylated ABS 029-01 as a detection antibody for measuring PYY(3-36). |
| WB    | ABS 051-04 can be used in Western blotting.   |

### SCIENTIFIC REFERENCES

N/A

#### CONDITIONS

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