

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 POSITIVE	Human	Species Reactivity NEGATIVE	Mouse, Rat, Dog, Pig

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 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 μ g/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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