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PRODUCT DATASHEET

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

Product Details

Available Variants	100 uL (SKU:ABS 051-04-010) 400 uL (SKU:ABS 051-04-04) 1000 uL (SKU:ABS 051-04-1)
Conjugate	Unconjugated
Isotype	IgG2a/k
Clone	4
Gene Name	PYY
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, WB
Dilution Ranges	ELISA: 1:20,000
Species Reactivity	Human
Immunogen	Synthetic N-terminal fragment of human PYY(3-36) coupled to carrier.
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.
Molecular Weight	4 kDa
Storage	2-8°C without exposure to light

UniProt ID	P10082 UniProt Summary: [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). {ECO:0000250|UniProtKB:P68005, ECO:0000250|UniProtKB:Q9EPS2, ECO:0000269|PubMed:1317848, ECO:0000269|PubMed:36525977, ECO:0000269|PubMed:7592910}.; [Peptide YY(3-36)]: Is a NPY2R agonist involved in the down-regulation of appetite and food intake, probably acting on receptors located on proopiomelanocortin(POMC)-releasing and neuropeptide Y(NPY)-releasing neurons in the arcuate nucleus of hypothalamus (PubMed:12167864). In NPY-releasing neurons, NPY2R activation by PYY(3-36) leads to membrane hyperpolarization and reduced release of the orexigenic neuropeptide NPY (By similarity). {ECO:0000250|UniProtKB:Q9EPS2, ECO:0000269|PubMed:12167864}.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	5697

Product Images



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