

#24895 Store at -20C

PYY (D1K3Q) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-P, IF-F	M	Endogenous (IHC-P, IF-F), Recombinant (W)	11	Rabbit IgG	#Q9EPS2	217212

Product Usage Information**Application****Dilution**

Immunohistochemistry (Paraffin)

1:200

Immunofluorescence (Frozen)

1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

PYY (D1K3Q) Rabbit mAb (Mouse Specific) recognizes endogenous levels of total PYY protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly37 of mouse PYY protein. Please note that Gly37 corresponds to Gly9 and Gly7 of PYY (1-36) and PYY (3-36), respectively.

Background

Peptide tyrosine-tyrosine (PYY; also known as Peptide YY) is a short amino acid peptide that is a member of the gastrointestinal (GI) family of hormones (1). Other GI hormone family members include glucagon-like peptide-1 (GLP-1), ghrelin, cholecystokinin (CCK), leptin, glucose, and insulin. GI hormones have diverse physiological and behavioral functions, but some are part of the brain-gut axis that combines neural functions with the gut to regulate appetite and satiety. This subset of hormones is expressed in enteroendocrine cells, specialized cells of the GI tract and pancreas that are part of the enteric endocrine system. PYY, as well as GLP-1, is secreted by a specific group of enteroendocrine cells, L cells, which line parts of the ileum and colon. At least two endogenous forms of PYY exist: full length PYY (1-36) and cleavage-generated PYY (3-36). Ectopic peripheral injection of PYY (3-36) suppresses food intake and reduces weight gain (2). Systemic PYY (3-36) is likely to regulate food intake, in part, by regulation of hypothalamus-mediated homeostasis via arcuate nucleus (Arc)-expressed neuropeptide Y2 receptor (Y2R) (2, 3). Thus, Peptide YY is an important GI hormone that regulates Arc-expressed neuropeptide Y2R to inhibit feeding in the gut-hypothalamic pathway.

Background References

1. Zanchi, D. et al. (2017) *Neurosci Biobehav Rev* 80, 457-475.
2. Batterham, R.L. et al. (2002) *Nature* 418, 650-4.
3. Abbott, C.R. et al. (2005) *Brain Res* 1043, 139-44.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key**IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen)**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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