# Anti NPY (Human, Mouse, Rat) Serum
# Cat. No. YII-Y060-EX Lot No. 028271027

**Description:** This antiserum which recognizes the central portion (20~25) of the peptide was raised in a rabbit by immunization with a carrier free synthetic NPY (human, mouse, rat) peptide. The product vial contains 50 µL of the titled antiserum obtained by lyophilizing its 0.001 M phosphate buffer (pH 7.0, 0.5mL) solution . It can be used for immunoassay, immunohistochemistry or any other immunoreaction with NPY (human, mouse, rat).

**Immunogen:** Synthetic NPY (human, mouse, rat), carrier free **Host:** Rabbit

**Amino Acid Sequence of NPY (human, mouse, rat)**[1]**:**
YPSKPDNPGE DAPAEDMARY YSALRHYINL ITRQRY-NH2

**Product Form:** Lyophilized unpurified serum **Size:** 50 µL

**Reconstitution:** Reconstitute the product with 0.5mL of 0.01M PBS (pH 7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g. NaN3 0.1%).

**Storage:** The product will be stable for over one year if it be stored at -20°C to -80°C until opened. Upon recon- stitution, the antiserum solution must be stored at 2°C to 8°C and used within one month. Repeated freezing- thawing should be avoided.

**Suggested Working Dilution Range:** 1:2,000-5,000 (final dilution~1:35,000) for radioimmunoassay. 1:1,000-4,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on radioimmunoassay)**:** NPY (human, mouse, rat) 100%, NPY (porcine) 100%, NPY (1-19) (human, mouse, rat) 0%, NPY (20-36) (human, mouse, rat) 25.6%, NPY (26-36) (human, mouse, rat) 0%, PYY (porcine) 100%, PP (human) 0%, PP (rat) 0%

**Positive Control** (immunohistochemistry)**:** Rat pancreas. (Caution: it also stains PP cell)

**Species Tested:** Rat, snake, tuna fish, gingseng radix[2,3,4,5]

**REFERENCES:**
1) C.D. Minth, P.C. Andrews et al., Characterization, sequence, and expression of the cloned human neuropeptide Y gene. Journal of Biolo- gical Chemistry 15 261:11974-11979, 1986
2) T. Ohishi, N. Yanaihara et al., Isolation and characterization of two Neuropeptide Ys from the hypothalamus of a yellow fin tuna, *Thunnus albacares.* Biomedical Research 18: 129-137, 1997
3) T. Ohishi, N. Yanaihara et al., Isolation and sequence determination of snake (Dinodom rufozonatus Cantor) and yellow fin tuna, (*Thunnus albacares*) NPYs. Peptide Chemistry 1996, C Kitada (Ed) Protein Research Foundation, Osaka, p153-156, 1997
*4)* T. Ohishi, N. Yanaihara et al., Immunoreactivities of neuropeptides in plants (*Gingseng Radix and Panacis Rhizoma*). Proceedings of 18 Gut Hormone Conference, Japan Society of Gut Hormones (Ed) 1995, 13: p285-291
5) S. Ishizaki, T. Murase et al., Role of ghrelin in the regulation of vasopressin release in conscious rats. Endocrinology 143: 1589-1593, 2002

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

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