Anti Carassius RFamide Serum

Cat. No. Y470 **Lot No. 530081218**

Description: This antiserum was raised in a rabbit by immunization with synthetic peptide of Carassius RFamide. 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 other immunoreactive applications with Carassius RFamide.

Immunogen: Synthetic Carassius RFamide, conjugate free **Host:** Rabbit

Amino Acid Sequence of RFamide (Carassius auratus)[1,2]:

SPEIDPFWYV GRGVRPIGRF-NH_2

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. NaN_3 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 reconstitution, 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: 1,000~5,000 for immunohistochemistry (frozen or paraffin sections). 1:15,000~ for enzyme immunoassay. Optimal dilution should be determined by each laboratory for each application.

Specificity (based on non-competitive EIA): Carassius RFamide 100%, rat PrRP (12-31)-NH_2 (rat PrRP20) 100%, human PrRP (12-31)-NH_2 (human PrRP20) 27.3%, rat PrRP (3-31)-NH_2 41.2%, human PrRP (3-31)-NH_2 22.5%.

Tissue tested (by immunohistochemistry): with frog and carp brain giving clear positive immunostainings.

REFERENCES:

1) M. Fujimoto, K. takeshita et al., Isolation and characterization of a novel bioactive peptide, Carassius RFamide (C-RFa), from the brain of the Japanen crucian carp. Biochem. Biophys. Res. Commun. 342(2):436-40, 1998

2) H. Satake, H. Minakata et al., Characterization of a cDNA encoding a precursor of Carassius RFamide, structurally related to a mammalian prolactin-releasing peptide. FEBS Lett. 446(2-3):247-50, 1999

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