Anti PHI (13-27)(Human) Serum Cat. No. Y021 Lot No. 850371128

Description: This antiserum was raised in a rabbit by immunization with a *Ascaris suilla* protein conjugate of synthetic PHI (13-27) (human) 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 PHI (human) and its C-ternimal portion.

Immunogen: Synthetic PHI (13-27) (human)-*Ascaris suilla* protein conjugate **Host:** Rabbit

Amino Acid Sequence of PHI (13-27) (human)[1]:

13 27

HADGVFTSDF SKLLGQLSAK KYLESLM-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: 1:2,000-10,000 (final dilution ~1:70,000) 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): PHI (13-27) (human) 100%, PHI (human) 100%, PHI (porcine) 0.08%, PHI (1-15) (porcine) 0%, PHI (1-15) (human) 0%, PHI (14-27) (porcine) 0%, PHI (20-27) (porcine) 0%, glucagon 0%, secretin (porcine) 0%, VIP (porcine) 0%, GRF (human) 0%

Positive Control (immunohistochemistry): Human colon

Species Tested: Human[2]

REFERENCES:

1) N. Itoh, N. Yanaihara et al., Human preprovasoactive intestinal polypeptide contains a novel PHI-27-like peptide, PHM-27. Nature 304:547-549, 1983

2) N. Yanaihara, C. Yanaihara et al., Immunochemical study on PHI/PHM with use of synthetic peptides. Peptides 5: 247-254, 1984

FOR RESEARCH LABORATORY USE ONLY

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

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