

Anti GIP (Total) (Rat) Monoclonal Antibody Cat. No. YM020

Description: This antibody, which specifically recognized the rat total GIP, [both GIP(1-42) and GIP(3-42)], was raised in a mouse by immunization with a keyhole limpet hemocyanin (KLH) conjugate of synthetic rat GIP. The product vial contains 0.05 mg purified IgG₁ of the titled antibody obtained by lyophilizing its 0.01M PBS (pH 7.2, 0.1 mL) solution without preservative. It can be used for immunoassay or any other immunoreaction with total rat GIP.

Immunogen: Synthetic rat GIP –KLH conjugate

Host: Mouse

Amino Acid Sequence GIP (rat)¹⁾:

YAEGTFISDY SIAMDKIRQQ DFVNWLAAQK GKKNDWKHNL TQ

Isotype: IgG₁ (Protein A purified)

Product Form: Lyophilized purified IgG

Size: 0.05 mg

Reconstitution: Reconstitute the product with 0.1 mL distilled water to make 0.5 mg/mL stock solution of 0.01M PBS. 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 reconstitution, the antibody 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: 1:100 for immunohistochemistry (frozen or paraffin section). Optimal dilution should be determined by each laboratory for each application.

Positive Control: (immunohistochemistry): Rat duodenum

Species Tested: Rat

Specificity (based on EIA): Rat GIP (Total) 100%, Mouse GIP (Total) 100%, Human GIP (Total) 100%, Glucagon 0.5%, GLP-1 (7-36)NH₂ 0%, GLP-1 (9-36)NH₂ 0%, Rat GLP-2 1.5%, Mouse GLP-2 0%, Human GLP-2 0%

REFERENCES:

- 1) Y. Higashimoto, J. Simchock, RA. Liddle, Molecular cloning of rat glucose-dependent insulinotropic peptide (GIP). *Biochim Biophys Acta.* 1132(1):72-74,1992

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