

Anti GIP (Active) (Rat) Monoclonal Antibody Cat. No. YM021 Lot No. 8E4F3(2)150120

Description: This antibody, which specifically recognized to rat GIP (1-42) active form 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 GIP (1-42) active form.

Immunogen: Synthetic rat GIP-Cys -KLH conjugate

Host: Mouse

Amino Acid Sequence GIP (rat)¹⁾:

YAEGTFISDY SIAMDKIRQQ DFNWLLAQK 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 (1-42) (Active form) 100%, Mouse GIP (1-42) (Active form) 100%, Human GIP (1-42) (Active form) 100%, Rat GIP (3-42) (Inactive form) 0%, Mouse GIP (3-42) (Inactive form) 0%, Human GIP (3-42) (Inactive form) 0%, Glucagon 0%, GLP-1 (7-36) NH₂ 0%, GLP-1 (9-36) NH₂ 0%, Rat GLP-2 0%, 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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