



COSMO BIO Co., LTD.

Inspiration for Life Science

**Anti GIP (Total) (Rat) Monoclonal Antibody** Cat. No. YM020 Lot No. 2D10H3150123

**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 IgG<sub>1</sub> 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)<sup>1)</sup>:**

YAEGTFISDY SIAMDKIRQQ DFNWLLAQK GKKNDWKHNL TQ

**Isotype:** IgG<sub>1</sub> (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. NaN<sub>3</sub> 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)NH<sub>2</sub> 0%, GLP-1 (9-36)NH<sub>2</sub> 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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