

**Anti Gastric Inhibitory Polypeptide (GIP)  
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.	<b>ABS 021-04</b>
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C
ANTIGEN	Human gastric inhibitory polypeptide (GIP) is a 42-amino-acid peptide belonging to the glucagon-secretin family of peptide hormones. It is secreted by endocrine cells in the duodenal mucosa and stimulates glucose-dependent insulin secretion as well as GLP-1 release from more distal endocrine (L) cells in the intestinal mucosa. GIP shows amino-acid sequence similarities to glucagon, GLP-1 and GLP-2 (from approximately 50% identity for glucagon to 30% identity for GLP-2).
IMMUNOGEN	Synthetic human gastric inhibitory polypeptide coupled to carrier.
SPECIFICITY	ABS 021-04 binds human GIP. ABS 021-04 cross-reacts up to 10% with PACAP and human GLP-2 but <0.1% with glucagon, GLP-1 or VIP. Cross-reactivity with porcine GIP has not been determined.
EPITOPE SPECIFICITY	Not determined
REACTIVITY	The dilution guideline applies to glutaraldehyde-linked GIP-OA (molar ratio 4:1) coated at 1 µg/mL. With GIP coated directly at 2 µg/mL the dilution guideline is 1/2000. In addition ABS 021-04 binds free GIP in solution.
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum.
FUSION PARTNER	SP2/mL-6.
IMMUNIZATION	Female NMRIxBALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH) <sub>3</sub> and emulsified in Freund's incomplete adjuvant.

## APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:10,000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for glutaraldehyde-coupled antigen coated at 2 µg/ml. Users should determine the optimal dilutions for their own purposes.

## REFERENCES

## CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.