

**Anti Gastric Inhibitory Polypeptide (GIP)  
Mouse Monoclonal Antibody**

Subclass: IgG1/k

PRODUCT NO.

**ABS 021-04**

PRESENTATION

Preparation: Protein-A/G purified  
 Content: 1 mL, 1 mg/mL  
 Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM 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.

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

The dilution guideline applies to glutaraldehyde-linked GIP-OA (molar ratio 4:1) coated at 1 mg/mL. With GIP coated directly at 2 µg/mL the dilution guideline is 1/2000.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum.

FUSION PARTNER

SP2/mIL-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.