BACKGROUND
Glucose-dependent Insulinotropic polypeptide (GIP) is a major physiologic factor in the augmentation of the Insulin response to oral glucose. GIP is a peptide hormone that is released postprandially from the small intestine and acts in concert with glucagon-like peptide (GLP)-1 to potentiate glucose-induced Insulin secretion from the pancreatic  β-cell. GIP has been shown to increase adenyl cyclase activity, elevate intracellular calcium levels and stimulate a mitogen-activated protein kinase pathway in the pancreatic  β-cell. Additionally, nutrient protein provides a potent stimulus for GIP expression, an effect that occurs at the posttranslational level and may be mediated in part through the acid-stimulatory properties of protein. GIP release is demonstrated predominantly after ingestion of carbohydrate and fat and the effects of acid on GIP are consistent with a role for GIP as an enterogastrone.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: GIP (human) mapping to 17q21.32.

RESEARCH USE
For research use only, not for use in diagnostic procedures.

SOURCE
GIP (021-04) is a mouse monoclonal antibody raised against synthetic GIP of human origin.

PRODUCT
Each vial contains 100 µg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

APPLICATIONS
GIP (021-04) is recommended for detection of GIP of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for GIP siRNA (h): sc-72038, GIP shRNA Plasmid (h): sc-72038-SH and GIP shRNA (h) Lentiviral Particles: sc-72038-V.

Molecular Weight of GIP: 5 kDa.
Positive Controls: A549 cell lysate: sc-2413.

DATA

SELECT PRODUCT CITATIONS

STORAGE
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS
See our web site at www.scbt.com for detailed protocols and support products.