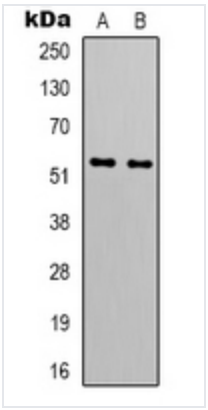
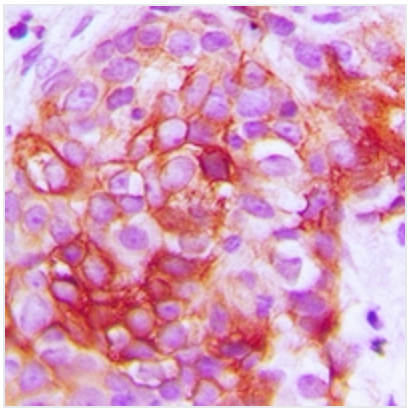
Receptor (GIP) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

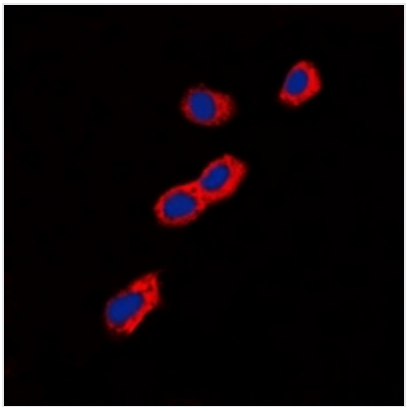
Product Name	GIP Receptor, Polyclonal Antibody
Full Product Name	Rabbit anti-GIP Receptor Antibody
Product Gene Name	anti-GIP antibody
Product Synonym Names	Gastric inhibitory polypeptide receptor; GIP-R; Glucose-dependent insulinotropic polypeptide receptor
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	53,157 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (46171502..46185717). Location: 19q13.3
OMIM	137241
3D Structure	ModBase 3D Structure for P48546
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GIP Receptor. The exact sequence is proprietary.
Product Categories/Family for anti-GIP antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-GIP antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-GIP antibody	WB: 1:500-1:1000 IHC: 1:100-1:200 IF:IC: 1:100-1:500
Related Product Information for anti-GIP antibody	MBS4507137 is an antibody targeting GIP. Also known as Rabbit anti-GIP Receptor Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-GIP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-GIP antibody
Western blot analysis of GIP Receptor expression in HT1080 (A), A549 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-GIP antibody
Immunohistochemical analysis of GIP Receptor staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-GIP antibody
Immunofluorescent analysis of GIP Receptor staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GIP. It may not necessarily be applicable to this product.

NCBI GI #	4503999
NCBI GeneID	2696
NCBI Accession #	NP_000155.1
UniProt Primary Accession #	P48546
UniProt Secondary Accession #	Q14401; Q16400; Q52M04; Q9UPI1
UniProt Related Accession #	P48546
GenBank Nucleotide #	NM_000164.2
NCBI Official Full Name	gastric inhibitory polypeptide receptor
NCBI Official Synonym Full Names	gastric inhibitory polypeptide receptor
NCBI Official Symbol	GIPR

NCBI Official Synonym Symbols	PGQTL2
UniProt Protein Name	Gastric inhibitory polypeptide receptor
UniProt Synonym Protein Names	Glucose-dependent insulinotropic polypeptide receptor
Protein Family	Copia protein
UniProt Gene Name	GIPR
UniProt Synonym Gene Names	GIP-R
UniProt Entry Name	GIPR_HUMAN
NCBI Protein Information	gastric inhibitory polypeptide receptor; GIP-R; glucose-dependent insulinotropic polypeptide receptor
NCBI Summary for GIP	This gene encodes a G-protein coupled receptor for gastric inhibitory polypeptide (GIP), which was originally identified as an activity in gut extracts that inhibited gastric acid secretion and gastrin release, but subsequently was demonstrated to stimulate insulin release in the presence of elevated glucose. Mice lacking this gene exhibit higher blood glucose levels with impaired initial insulin response after oral glucose load. Defect in this gene thus may contribute to the pathogenesis of diabetes. [provided by RefSeq, Oct 2011]
UniProt Comments for GIP	GIPR: This is a receptor for GIP. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. Belongs to the G-protein coupled receptor 2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: GPCR, family 2; Receptor, GPCR; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: integral to membrane; plasma membrane Molecular Function: gastric inhibitory peptide receptor activity; transmembrane receptor activity; peptide hormone binding Biological Process: elevation of cytosolic calcium ion concentration; desensitization of G-protein coupled receptor protein signaling pathway; generation of precursor metabolites and energy; cell surface receptor linked signal transduction; adenylate cyclase activation; response to glucose stimulus; positive regulation of insulin secretion; response to axon injury; response to calcium ion; endocrine pancreas development; response to nutrient
Research Articles on GIP	**1.** Functional expression of a GIP receptor mutant lacking N-glycosylation is rescued by co-expressed wild type GLP1 receptor, which suggests formation of a GIP-GLP1 receptor heteromer.
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