



# Anti-GAST polyclonal antibody (DPAB2291GH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Gastrin.
<b>Antigen Description</b>	Gastrin is a hormone whose main function is to stimulate secretion of hydrochloric acid by the gastric mucosa, which results in gastrin formation inhibition. This hormone also acts as a mitogenic factor for gastrointestinal epithelial cells. Gastrin has two biologically active peptide forms, G34 and G17. In humans, gastrin is a peptide hormone that stimulates secretion of gastric acid (HCl) by the parietal cells of the stomach and aids in gastric motility. It is released by G cells in the antrum of the stomach, duodenum, and the pancreas. It binds to cholecystokinin B receptors to stimulate the release of histamines in enterochromaffin-like cells, and it induces the insertion of K <sup>+</sup> /H <sup>+</sup> Atpase pumps into the apical membrane of parietal cells (which in turn increases H <sup>+</sup> release). Its release is stimulated by peptides in the lumen of the stomach.
<b>Specificity</b>	Gastrin-secreting cells are numerous in the antrum and a few are found in the proximal duodenum. The antibody can be used for the diagnosis of gastrin-producing tumors which are mainly found in the pancreas and occasionally in the stomach and the duodenum.
<b>Immunogen</b>	Synthetic human gastrin I, conjugated to BSA.
<b>Source/Host</b>	Guinea pig
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC, IF, Suitable for frozen and paraffin-embedded tissue
<b>Positive Control</b>	Formalin-fixed paraffin sections of rat antrum.
<b>Format</b>	Guinea pig serum
<b>Size</b>	50 µl

<b>Buffer</b>	Dissolve the antiserum in 50-100 µdistilled water, and dilute further in 0.1 M PBS with 1% BSA and 0.1% NaN <sub>3</sub> .
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	At 2-8°C (undiluted) or at -20°C (aliquots).

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GAST gastrin [ Homo sapiens ]</a>
<b>Official Symbol</b>	GAST
<b>Synonyms</b>	GAST; gastrin; Gastrin; GAS; OTTHUMP00000164741
<b>Entrez Gene ID</b>	<a href="#">2520</a>
<b>Protein Refseq</b>	<a href="#">NP_000796</a>
<b>UniProt ID</b>	<a href="#">P01350</a>
<b>Chromosome Location</b>	17q21
<b>Pathway</b>	G alpha (q) signalling events; GPCR downstream signaling; Gastric acid secretion; Signal Transduction; Signaling by GPCR
<b>Function</b>	hormone activity