



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Big Gastrin-1

Gastrin is a peptide hormone released by G cells in the pyloric antrum of the stomach, duodenum, and the pancreas. It stimulates secretion of gastric acid (HCl) by the parietal cells of the stomach and helps in gastric motility. Gastrin binds to cholecystokinin B receptors to stimulate the release of histamines in enterochromaffin-like cells, and it induces the insertion of K⁺/H⁺ ATPase pumps into the apical membrane of parietal cells. The encoded polypeptide is preprogastrin, which is enzymatically cleaved to produce progastrin and then gastrin in various forms such as gastrin-34 ("big gastrin"), gastrin-17 ("little gastrin"), gastrin-14 ("minigastrin"). Big Gastrin-1, also known as Gastrin-34 or "Big Gastrin", is a 34-amino acid peptide secreted by the G cells in the gastric mucosa. It is one of the major bioactive forms of gastrin found in tissue and plasma.

This antibody was generated by immunization of rabbits with Big Gastrin-1 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4342 (Lot 034569)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffered saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative. Reconstitute by adding 0.2ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	Synthetic peptide Pyr-Leu-Gly-Pro-Gln-Gly-Pro-Pro-His-Leu-Val-Ala-Asp-Pro-Ser-Lys-Lys-Gln-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe-NH ₂ coupled to carrier protein.
Protein database:	<u>human-P01350</u>

Cross-Reactivity:

PEPTIDE	%
Big Gastrin-1 (human)	100
Gastrin-1 (human)	100
Pancreatic Polypeptide (human)	14
Pentagastrin	0.6
Somatostatin-14	0
Insulin (human)	0
Substance P	0
VIP (human, bovine, porcine, rat)	0

Applications:

Tested in ELISA against Galanin and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Optimal dilutions should be determined by the end user
Please see **www.bma.ch** for protocols and general information

Related Products:

S-1209: ELISA, high sensitivity for extracted samples
T-4343: Rabbit anti Big Gastrin-1, neat antiserum, (hu)
T-4347: Rabbit anti Gastrin-1, neat antiserum, (hu)
T-4345: Rabbit anti Gastrin-1, diluted antiserum, (hu)
T-4052: Rabbit anti Gastrin Inhibitory Polypeptide, diluted antiserum
T-4349: Gastrin Releasing Peptide, diluted antiserum, (ca, hu, po)

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.