



BMA BIOMEDICALS



Peninsula Laboratories

T-4342

Rabbit anti Big Gastrin-1 (human) [UniProt: P01350]

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 progastrin, 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

Lot number:	n/a
Host species:	Rabbit IgG
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 0.2ml distilled water. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative.
Stability:	Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.
Applications:	This antibody has been tested and validated in ELISA against Big Gastrin-1. Other applications like immunohistochemistry (IHC), FACS or 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.
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-Ala-Tyr-Gly-Trp-Met-Asp-Phe-NH ₂ coupled to carrier protein.

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

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

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

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rabbit IgG

1.3.2021