



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4345

### Rabbit anti 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<sup>+</sup>/H<sup>+</sup> 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"). Gastrin-1, also known as Gastrin-17 or "Little Gastrin", is a 17-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 Gastrin-1 coupled to a carrier protein.

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### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A10292
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	50ml diluted antiserum, lyophilized
<b>Format:</b>	Each vial contains enough antiserum for 500 RIA tubes. The powder should be rehydrated with 50ml RIA buffer. Upon reconstitution to 50ml total volume, the solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN <sub>3</sub> , and 0.1% Triton X-100. Store at 4°C. This should ensure antibody stability for approximately one month.
<b>Stability:</b>	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.
<b>Applications:</b>	This antibody has been tested and validated in ELISA against 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 <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Synthetic peptide Pyr-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe-NH <sub>2</sub> coupled to carrier protein.

**Cross-Reactivity:**

<b>PEPTIDE:</b>	<b>%</b>
Gastrin I (human)	100
Big Gastrin I (human)	100
Gastrin I (chicken)	0.5
CCK Octapeptide (desulfated)	3
CCK Octapeptide (sulfated)	6
Pancreatic Polypeptide (human)	0
GRP (human)	0
GIP (porcine)	0
Amylin (human)	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-4346: Rabbit anti Gastrin-1 (hu), purified IgG  
T-4052: Rabbit anti Gastrin Inhibitory Polypeptide, diluted antiserum  
T-4349: Gastrin Realising Peptide (ca, hu, po), diluted antiserum  
T-4342: Rabbit anti Big Gastrin-1 (hu), purified IgG

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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.

T-4345

diluted antiserum

1.3.2021