



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Gastrin Releasing Peptide (GRP)

Gastrin-releasing peptide (GRP) is a neuropeptide that has been implicated in a number of physiological and pathophysiological processes. Most notably, GRP stimulates the release of gastrin from the G cells of the stomach. It is also known to be a regulatory human peptide that elicits gastrin release and regulates gastric acid secretion and enteric motor function. The post-ganglionic fibers of the vagus nerve that innervate the G cells of the stomach release GRP, which stimulates the G cells to release gastrin. GRP is also involved in the biology of the circadian system, playing a role in the signaling of light to the master circadian oscillator in the suprachiasmatic nuclei of the hypothalamus.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4350 (Lot 970182)
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.
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Immunogen:	Synthetic peptide H-Ala-Pro-Val-Ser-Val-Gly-Gly-Gly-Thr-Val-Leu-Ala-Lys-Met-Tyr-Pro-Arg-Gly-Asn-His-Trp-Ala-Val-Gly-His-Leu-Met-NH ₂ coupled to carrier protein.
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Protein database:	<u>human-P07492</u>
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Cross-Reactivity:

PEPTIDE	%
GRP (human)	100
GRP (14-27) (human, porcine, canine)	100
Bombesin	100

Cross-Reactivity:

PEPTIDE	%
GRP (porcine)	87
Acetyl-GRP (20-27) (human, porcine, canine)	78
GRP (1-16) (human)	0
GRP (1-16) (porcine)	0
Gastrin I (human)	0
Big Gastrin I (human)	0
GIP (human)	0
Substance P	0

Applications:

Tested in ELISA against Gastrin Releasing Peptide 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-1405: ELISA high sensitivity for extracted samples
T-4351: Rabbit anti GRP, neat antiserum (hu)
T-4353: Rabbit anti GRP, diluted antiserum (po)
T-4354: Rabbit anti GRP, purified IgG (po)
T-4355: Rabbit anti GRP, neat antiserum (po)

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