



BMA BIOMEDICALS



Peninsula Laboratories

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**T-4748**

**Rabbit anti Ghrelin (mouse, rat) [UniProt: Q9EQX0, Q9QYH7]**

Ghrelin is a 28-amino acid appetite stimulating peptide hormone secreted by enteroendocrine cells of the gastrointestinal tract (P/D1-type cells in humans), especially the stomach, and circulates in the bloodstream during fasting conditions. It is known to prepare for food intake by increasing gastric motility and gastric acid secretion. Ghrelin has several functions including activation of cells in the anterior pituitary gland and hypothalamic arcuate nucleus that initiate appetite, stimulation of brain structures having a specific receptor – the growth hormone secretagogue receptor 1A (GHSR-1A), and also participation in other regulations such as learning and memory, the sleep-wake cycle, taste sensation, reward behavior, and glucose metabolism.

This antibody was generated by immunization of rabbits with Ghrelin coupled to a carrier protein.

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**TECHNICAL AND ANALYTICAL CHARACTERISTICS**

<b>Lot number:</b>	020810-1
<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 Ghrelin. 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 H-Gly-Ser-Ser(octanoyl)-Phe-Leu-Ser-Pro-Glu-His-Gln-Arg-Val-Gln-Gln-Arg-Lys-Glu-Ser-Lys-Lys-Pro-Pro-Ala-Lys-Leu-Gln-Pro-Arg-OH coupled to carrier protein.

**Cross-Reactivity:**

<b>PEPTIDE:</b>	<b>%</b>
Ghrelin (human)	100
Ghrelin (rat)	5
Motilin (canine)	0
GRF (1-40) (human)	0
GRF (1-43) (rat)	0
Orexin A (human, rat, mouse, bovine)	0
Orexin B (human)	0
Orexin B (rat, mouse)	0
Secretin (human)	0
VIP (human, bovine, porcine, rat)	0
Galanin (human)	0
Galanin (rat)	0

Related Products:	S-1222: ELISA, high sensitivity for extracted samples
	T-4747: Rabbit anti Ghrelin (hu), neat antiserum
	S-1225: ELISA, extraction-free for serum and plasma samples
	T-4750: Rabbit anti Ghrelin (ms, rt), neat antiserum
	T-4846: Rabbit anti Inactive Ghrelin (hu), purified IgG
	T-4746: Rabbit anti Ghrelin (hu), purified IgG
	T-4749: Rabbit anti Ghrelin (ms, rt), 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-4748

diluted antiserum

1.3.2021