



BMA BIOMEDICALS

Monoclonal Antibody Ghrelin

To Human and Porcine

Monoclonal antibody 1ML-1D7 recognizes human/porcine Ghrelin. Ghrelin is the only known peripheral orexigenic hormone. It is a 28 amino acid peptide, octanoylated at the serine 3 residue, which is principally secreted from endocrine cells in the stomach. Besides its orexigenic role, ghrelin regulates central and peripheral lipid metabolism through specific control of hypothalamic AMP-activated protein kinase (AMPK), thus regulating both cellular and whole-body energy homeostasis.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1432 (Lot 01PO1108)
Clone:	1ML-1D7
Host species, isotype:	Mouse IgG1 kappa
Quantity:	100µg
Format:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer, and 0.01% (v/v) Kathon™ CG as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution or aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: < 10µg/ml (1:20) Paraffin sections: 10µg/ml (1:20); pretreatment in microwave with citrate buffer for antigen retrieval is recommended Optimal dilutions should be determined by the end user Suggested positive control: human/porcine stomach Please see www.bma.ch for protocols and general information
Immunogen:	Synthetic peptide corresponding to the N-terminal 18 residues of human ghrelin.

Protein database:	<u>human-Q9UBU3, pig-Q9GKY5</u>
Antigen, epitope:	The antigen is human/porcine ghrelin, the epitope is located on the N-terminal side of the peptide.
Antigen distribution:	The antigen has been described in the stomach.
Specificity:	Human/Porcine: Ghrelin. Other: Not tested.

Selected references

Kojima M. et al.: Ghrelin is a growth-hormone-releasing acylated peptide from stomach. *Nature* **402** (6762): 656-60 (1999).

Tomasetto C. et al.: Identification and characterization of a novel gastric peptide hormone: the motilin-related peptide. *Gastroenterology* **119**: 395-405 (2000).

For in vitro research only. This product contains Kathon™ CG as a preservative.