
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.

Product number: T-1432

Clone: 1ML-1D7

Lot: 01PO1108

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, subclass: 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% Kathon as a preservative.

Stability: Original vial: 1 year at 4° - 8°C

Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.

Applications: Tested for immunohistochemistry (IHC).

Approximate working dilution for IHC:

Frozen sections: < 10µg/ml (1:20)

Paraffin sections: 10µg/ml (1:20); microwave pretreatment in citrate buffer is recommended for antigen retrieval.

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.

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 as a preservative.