abcam

Product datasheet

Anti-Ghrelin antibody [45] ab112477

2 References

Overview

Product name	Anti-Ghrelin antibody [45]
Description	Mouse monoclonal [45] to Ghrelin
Host species	Mouse
Specificity	ab112477 binds Human ghrelin and Human des-acyl ghrelin, cross-reacting ~5% with rat ghrelin (determined by sandwich ELISA).
Tested applications	**Suitable for:** ELISA
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human Ghrelin. Synthetic Human Ser3-octanoyl ghrelin-28 Database link: **Q9UBU3-1**
Epitope	Not determined. Probably includes residues 11 or 12 to account for the lower cross-reactivity with rat ghrelin.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituents: 97% PBS, 2.9% Sodium chloride
Purity	Protein A purified
Clonality	Monoclonal
Clone number	45

Isotype	IgG1
Light chain type	lambda

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab112477 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.

Target

Function	Ghrelin is the ligand for growth hormone secretagogue receptor type 1 (GHSR). Induces the release of growth hormone from the pituitary. Has an appetite-stimulating effect, induces adiposity and stimulates gastric acid secretion. Involved in growth regulation. Obestatin may be the ligand for GPR39. May have an appetite-reducing effect resulting in decreased food intake. May reduce gastric emptying activity and jejunal motility.
Tissue specificity	Highest level in stomach. All forms are found in serum as well. Other tissues compensate for the loss of ghrelin synthesis in the stomach following gastrectomy.
Sequence similarities	Belongs to the motilin family.
Post-translational modifications	O-octanoylation or O-decanoylation is essential for ghrelin activity. The O-decanoylated forms Ghrelin-27-C10 and Ghrelin-28-C10 differ in the length of the carbon backbone of the carboxylic acid bound to Ser-26. A small fraction of ghrelin, ghrelin-28-C10:1, may be modified with a singly unsaturated carboxylic acid. Amidation of Leu-98 is essential for obestatin activity.
Cellular localization	Secreted.

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