Product Name: Ghrelin Rabbit Polyclonal Antibody
Catalog #: APRab11438

Summary

Production Name	Ghrelin Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	GHRL
Alternative Names	GHRL; MTLRP; Appetite-regulating hormone; Growth hormone secretagogue; Growth hormone-releasing peptide; Motilin-related peptide; Protein M46
Gene ID	51738.0
SwissProt ID	Q9UBU3.The antiserum was produced against synthesized peptide derived from human Ghrelin. AA range:47-96

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	13kD

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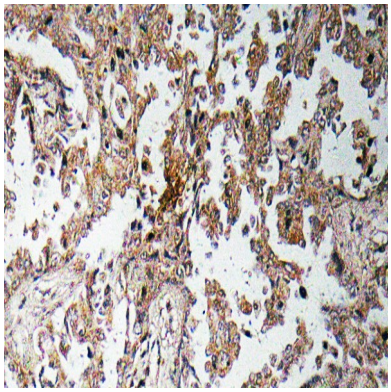
Background

This gene encodes the ghrelin-obestatin preproprotein that is cleaved to yield two peptides, ghrelin and obestatin. Ghrelin is a powerful appetite stimulant and plays an important role in energy homeostasis. Its secretion is initiated when the stomach is empty, whereupon it binds to the growth hormone secretagogue receptor in the hypothalamus which results in the secretion of growth hormone (somatotropin). Ghrelin is thought to regulate multiple activities, including hunger, reward perception via the mesolimbic pathway, gastric acid secretion, gastrointestinal motility, and pancreatic glucose-stimulated insulin secretion. It was initially proposed that obestatin plays an opposing role to ghrelin by promoting satiety and thus decreasing food intake, but this action is still debated. Recent reports suggest multiple metabolic roles for obestatin, including regulating adipocyte functionfunction: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.,function: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.,mass spectrometry:Ghrelin-27-C10, O-decanoylated form PubMed:12414809,mass spectrometry:Ghrelin-27-C8, O-octanoylated form PubMed:12414809,mass spectrometry:Ghrelin-28-C10, O-decanoylated form PubMed:12414809,mass spectrometry:Ghrelin-28-C10:1, O-decenoylated form PubMed:12414809,mass spectrometry:Ghrelin-28-C8, O-octanoylated form PubMed:12414809,online information:Ghrelin entry,online information:Gut feelings - Issue 66 of January 2006,PTM:Amidation of Leu-98 is essential for obestatin activity.,PTM: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.,similarity:Belongs to the motilin family.,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.,

Research Area

Image Data



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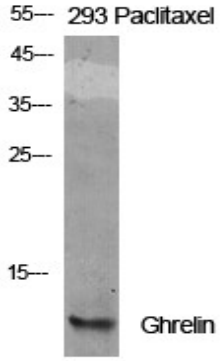
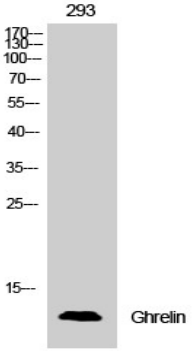
Immunohistochemistry analysis of Ghrelin antibody in paraffin-embedded human lung carcinoma tissue.

Western blot analysis of lysate from 293 cells, using Ghrelin antibody.



Western Blot analysis of various cells using Ghrelin Polyclonal Antibody



Western Blot analysis of 293 cells using Ghrelin Polyclonal Antibody

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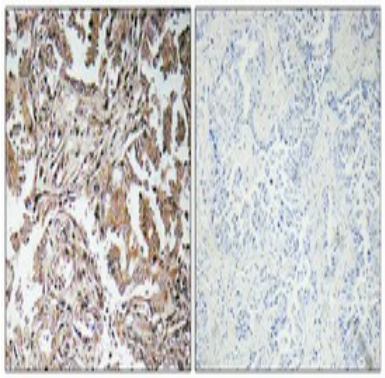

Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100（4°,overnight）. High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl （right） obtaned from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.