ARG22629
anti-Ghrelin antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Ghrelin
Tested Reactivity	Hu, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Ghrelin
Species	Human
Immunogen	Synthetic peptide around the center region of Human Ghrelin.
Conjugation	Un-conjugated
Alternate Names	Motilin-related peptide; Appetite-regulating hormone; Growth hormone secretagogue; Growth hormone-releasing peptide; MTLRP; Ghrelin; Protein M46

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
IHC-P	1:50
WB	1:1000

Application Note

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

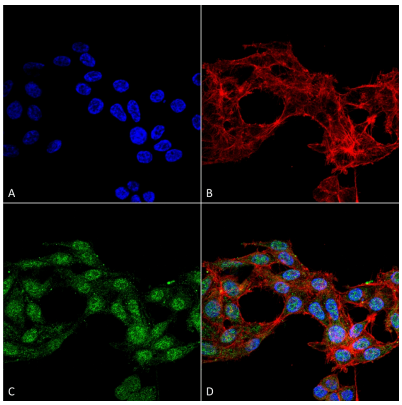
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.09% Sodium azide and 50% Glycerol.
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

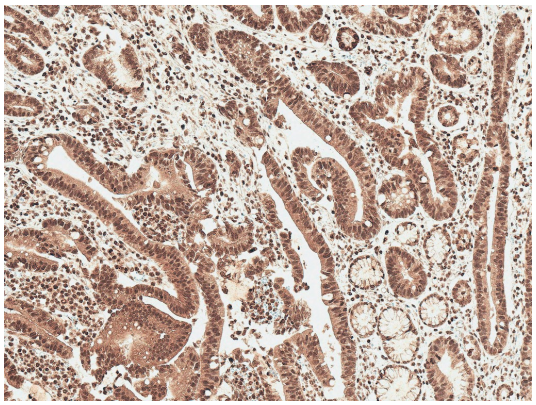
Gene Symbol	GHRL
Gene Full Name	ghrelin/obestatin prepropeptide
Background	This gene encodes the ghrelin-obestatin preproprotein that is cleaved to yield two peptides, ghrelin and obestatin. Ghrelin is a powerful appetite stimulant and plays an important role in energy homeostasis. Its secretion is initiated 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 function and glucose metabolism. Alternative splicing results in multiple transcript variants. In addition, antisense transcripts for this gene have been identified and may potentially regulate ghrelin-obestatin preproprotein expression. [provided by RefSeq, Nov 2014]
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 (By similarity). [UniProt]
Calculated Mw	13 kDa
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 (PubMed:10604470). Amidation of Leu-98 is essential for obestatin activity.

Images



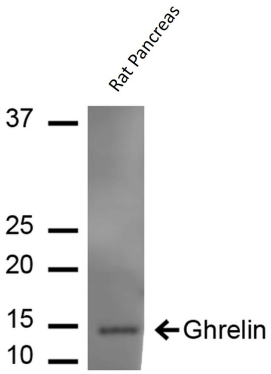
ARG22629 anti-Ghrelin antibody ICC/IF image

Immunofluorescence: 4% Formaldehyde fixed (15 min, RT) Human colon carcinoma cell line (RKO) stained with ARG22629 anti-Ghrelin antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat anti-Rabbit (ATTO 488) at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain. (A) DAPI nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Primary antibody. (D) Composite.



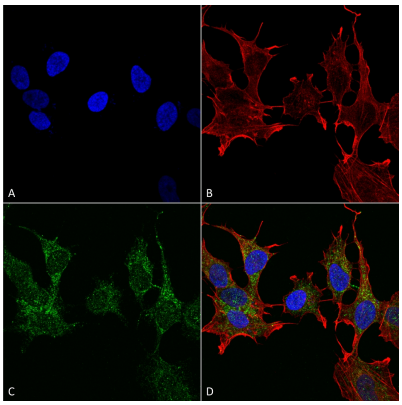
ARG22629 anti-Ghrelin antibody IHC-P image

Immunohistochemistry: Human Stomach stained with ARG22629 anti-Ghrelin antibody at 1:50 dilution.



ARG22629 anti-Ghrelin antibody WB image

Western blot: 15 µg of Rat Pancreas lysates stained with ARG22629 anti-Ghrelin antibody at 1:1000 for 60 min at RT.



ARG22629 anti-Ghrelin antibody ICC/IF image

Immunofluorescence: 4% Formaldehyde fixed (15 min, RT) Human neuroblastoma cell line (SK-N-BE) stained with ARG22629 anti-Ghrelin antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat anti-Rabbit (ATTO 488) at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain. (A) DAPI nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Primary antibody. (D) Composite.