

## Ghrelin Polyclonal Antibody

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| <b>Catalog No :</b>          | YT1900  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | Ghrelin   |
| <b>Fields :</b>              | >>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>Growth hormone synthesis, secretion and action |
| <b>Gene Name :</b>           | GHRL  |
| <b>Protein Name :</b>        | Appetite-regulating hormone   |
| <b>Human Gene Id :</b>       | 51738   |
| <b>Human Swiss Prot No :</b> | Q9UBU3  |
| <b>Mouse Gene Id :</b>       | 58991   |
| <b>Mouse Swiss Prot No :</b> | Q9EQX0  |
| <b>Rat Gene Id :</b>         | 59301   |
| <b>Rat Swiss Prot No :</b>   | Q9QYH7  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human Ghrelin. AA range:47-96                   |
| <b>Specificity :</b>         | Ghrelin Polyclonal Antibody detects endogenous levels of Ghrelin protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000. IF 1:100-300 Not yet tested in other applications.                |

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 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 function

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**Function :** 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.,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:Amida

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**Subcellular Location :** Secreted.

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**Expression :** 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.

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**Tag :** orthogonal

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**Sort :** 1458

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ab209790

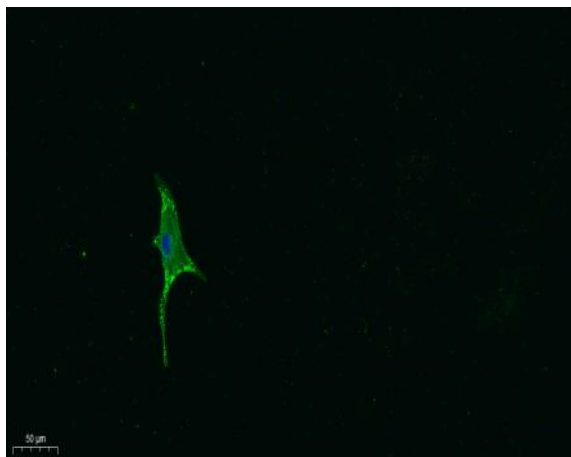
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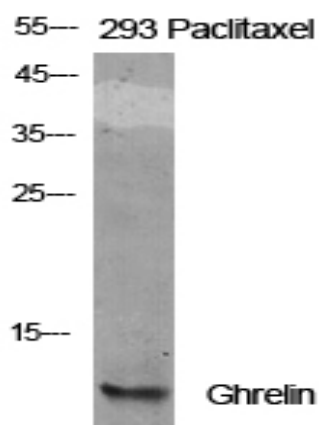
|                        |                   |
|------------------------|-------------------|
| <b>No# :</b>           | <u>1</u>          |
| <b>Host :</b>          | <u>Rabbit</u>     |
| <b>Modifications :</b> | <u>Unmodified</u> |

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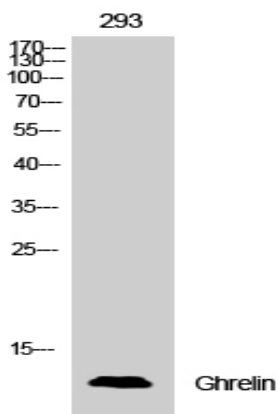
## Products Images



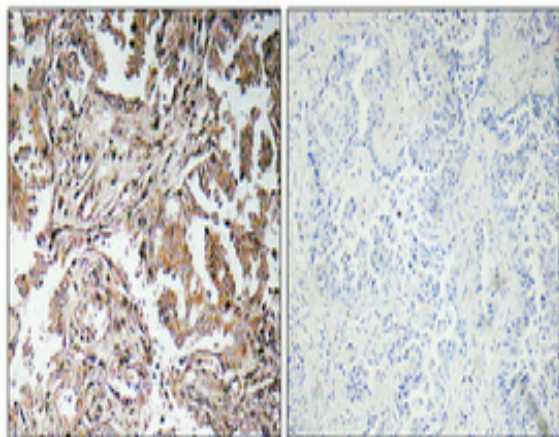
Immunofluorescence analysis of A549. 1,primary Antibody was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 488 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



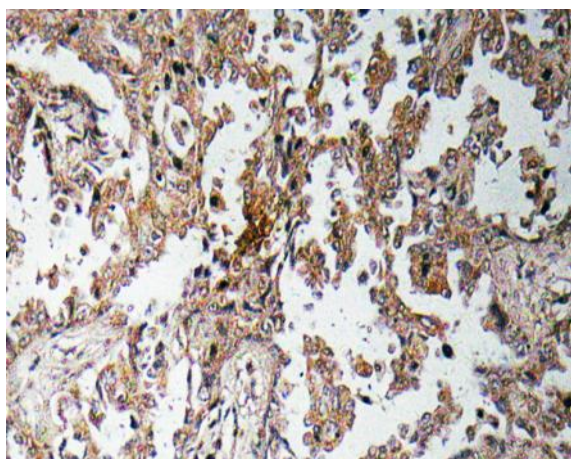
Western Blot analysis of various cells using Ghrelin Polyclonal Antibody



Western Blot analysis of 293 cells using Ghrelin Polyclonal Antibody



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. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



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



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