

## Product datasheet for **AP05439PU-N**

### Growth Hormone (GH1) Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | IF, IHC, WB   |
| Recommended Dilution: | <b>Western blot:</b> 1/50-1/500.<br><b>Immunofluorescence:</b> 1/10-1/100.<br><b>Immunohistochemistry on Frozen Sections.</b><br><b>Immunohistochemistry on Paraffin Sections:</b> 1/500-1/4000.  |
| Reactivity:           | Canine, Feline, Human, Rat, Sheep   |
| Host:                 | Rabbit  |
| Isotype:              | IgG   |
| Clonality:            | Polyclonal  |
| Immunogen:            | Growth hormone from ovine pituitary.  |
| Specificity:          | This antibody recognizes human Growth Hormone (GH), which acts to control body growth and metabolic activity. In Western blotting a band of approximately 20 kDa is seen using lysates of human pituitary gland.  |
| Formulation:          | Phosphate buffered saline containing 0.09% Sodium Azide as preservative.<br>State: Purified<br>State: Liquid purified Ig fraction.  |
| Concentration:        | lot specific  |
| Purification:         | Affinity Chromatography on Protein G  |
| Conjugation:          | Unconjugated  |
| Storage:              | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Storage in frost-free freezers is not recommended.<br>Avoid repeated freezing and thawing.<br>Should this product contain a precipitate we recommend microcentrifugation before use. |
| Stability:            | Shelf life: One year from despatch.   |
| Gene Name:            | growth hormone 1  |
| Database Link:        | <a href="#">Entrez Gene 2688 Human P01241</a>   |



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**Background:**

Human growth hormone (hGH) plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. The effects of hGH in the body can be generally described as anabolic. It stimulates amino acid uptake and protein synthesis in muscle and other tissues.

Growth Hormone (GH1) is synthesized by acidophilic or somatotropic cells of the anterior pituitary gland. Genes for growth hormone (GH) are found in a gene cluster on 17q, which consists of two growth hormone genes and three CSH genes. The GHN1 gene is transcribed exclusively in the pituitary, whereas the other 4 genes are expressed only in placental tissues. Several isoforms of GH1 exist. Human growth hormone (hGH) is also used as a reporter protein, because it is secreted from mammalian cells it can be assayed by ELISA on culture supernatant using antibodies to determine the level of expression.

**Synonyms:**

Pituitary growth hormone, Growth hormone 1, HGH