

AP01078PU-N**Polyclonal Antibody to Growth Hormone - Purified -****Alternate names:**

Growth hormone 1, HGH, Pituitary growth hormone

Quantity:

50 µl

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 somatotrophic 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.

Uniprot ID:[P01244](#)**NCBI:**[NP_001030020.2](#)**GeneID:**[24391](#)**Host:**

Rabbit

Immunogen:

Purified Rat Growth Hormone.

Format:**State:** Liquid purified Ig fraction.**Purification:** Ammonium Sulphate Precipitation.**Buffer System:** 0.05M NH₄HCO₃ with 0.09% Sodium Azide as preservative.**Reconstitution:** Restore with sterile distilled water. For long term storage the addition of a preservative is recommended.**Applications:****Western Blot:** 1/300-1/400.**Immunohistochemistry on Frozen Sections:** 1/200-1/500.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody is specific for Rat Growth Hormone (GH) which acts to control body growth and metabolic activity. GH is a small peptide hormone released by the anterior pituitary under the control the hypothalamus. It does not react with Rat LH, TSH, FSH or prolactin.

Species Reactivity:**Tested:** Rat.**Storage:**

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.