

# Human Growth Hormone 1/GH1 antibody

Catalog Number: AGH0401

## PRODUCT INFORMATION

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**Catalog number**

AGH0401

**Clone No.**

g3H5

**Product type**

Monoclonal Antibody

**UnitProt No.**

P01241

**NCBI Accession No.**

NP\_000506

**Alternative Names**

GH1, Growth Hormone, GH, GH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin, GHN, hGH-N

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human growth hormone (27-217aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, Neutralization

**Usage**

The antibody has been tested by ELISA, Western blot and Neutralization analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

Human growth hormone (hGH, somatotropin), a protein hormone from the anterior lobe of the pituitary gland, comprises a single polypeptide chain of 191 amino acid residues. The 20kDa variant form of human growth hormone (20kDa hGH) presents in extracts from pituitary glands and it differs from the major form of hGH (22kDa, 191 amino acid) by the deletion of amino acid residues 32-46. The growth hormone amino acid sequence varies considerably between species, and non-primate growth hormones have little activity in man. Main functions of hGH and 20kDa hGH are the stimulation of somatic and bone growth, as well as an increase in the size and mass of organs and tissues.

### General References

Wickens, et al., (1978) J. Biol Chem. 253(7)2483-2495.

Chang, et al., (1978) Nature . 275,617-624.

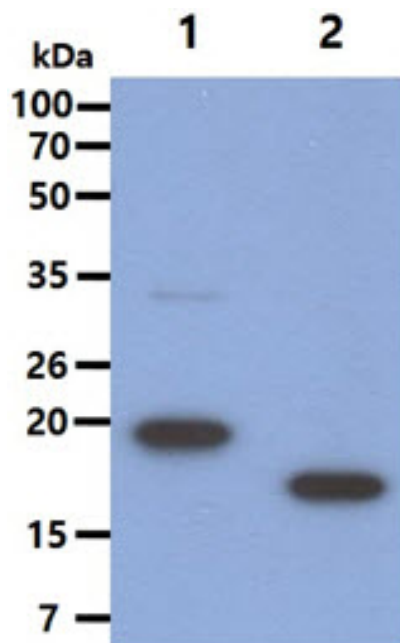
Ullrich, et al., (1977) Science 196, 1313-1319.

Tsushima, et al., (2000) Endocr J. 47S17-2.

Horan, M. et al.,(2003) Hum. Mutat. 21(4)408-423.

## DATA

### Western blot analysis (WB)



The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Growth hormone antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

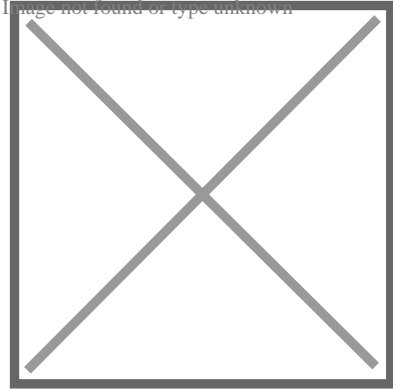
Lane 1.: Recombinant human hGH protein (21-217aa)

Lane 2.: Recombinant human hGH protein (27-202aa)

### Additional Information

## Human Growth Hormone 1/GH1 antibody

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Neutralization: Measured by its ability to neutralize Growth hormone induced proliferation in Nb2-11 rat lymphoma cells. The neutralization ED50 is less than or equal to 2ug/ml in the presence of 2.5 ng/ml recombinant protein human Growth hormone. {AGH0401-addpic.jpg}