

Human Growth Hormone 1/GH1 antibody

Catalog Number: AGH0401

PRODUCT INFORMATION

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

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.

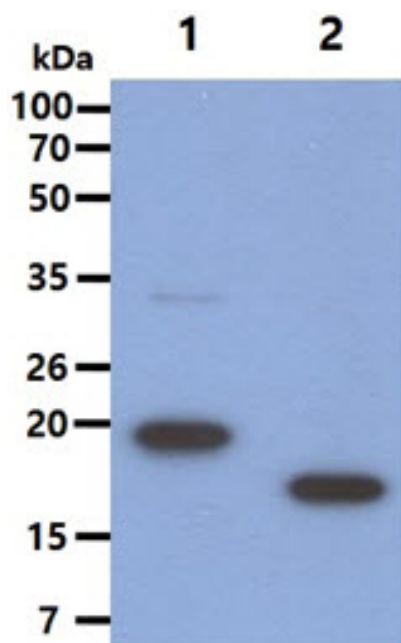
Ullrich. et al., (1977) Science 196, 1313-1319.

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.

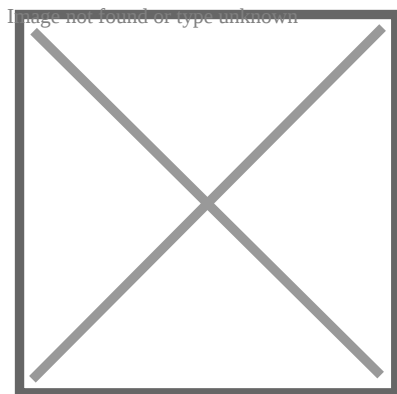
Lane 1.: Recombinant human hGH protein (21-217aa)

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}