



## Product Information Sheet

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### Monoclonal Anti-Growth hormone

**Catalogue No.** MA1046

**Immunogen**

Recombinant hGH.

**Lot No.** 08A12

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Clone:** GH-15

**Ig type:** mouse IgG1

**Application**

*Immunohistochemistry(P)*

**Size:** 100µg/vial

At 2-4µg/ml to detect growth hormone in formalin fixed and paraffin embedded tissues.

**Specificity**

Human.

*Other applications have not been tested.*

No cross reactivity with other proteins.

*Optimal dilutions should be determined by end user.*

**Formulation**

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

**Recommended application**

*Immunohistochemistry(P)*

**Reconstitution**

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

**To reorder contact us at:**

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: Info@antageneinc.com**

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

**BACKGROUND**

Growth Hormone (GH) is mapped to 17q22-q24. Human growth hormone has a molecular mass of 22,005 and contains 191 amino acid residues with 2 disulfide bridges. It binds two receptor molecules and thereby induces signal transduction through receptor dimerization. At high concentrations, GH acts as an antagonist because of a large difference in affinities at the respective binding sites.

**REFERENCE**

1. Niall, H. D.; Hogan, M. L.; Sauer, R.; Rosenblum, I. Y.; Greenwood, F. C. : Sequence of pituitary and placental lactogenic and growth hormones: evolution from a primordial peptide by gene reduplication. Proc. Nat. Acad. Sci. 68: 866-869, 1971.
2. Sundstrom, M.; Lundqvist, T.; Rodin, J.; Giebel, L. B.; Milligan, D.; Norstedt, G. : Crystal structure of an antagonist mutant of human growth hormone, G120R, in complex with its receptor at 2.9 angstrom resolution. J. Biol. Chem. 271: 32197-32203, 1996.