



Biotin Conjugated Mouse Anti- hGH Monoclonal Antibody Datasheet

Product Name: Biotin conjugated mAb anti-hGH

Clone No.: YC8

Catalogue No.: MO-M40012TB

Quantity: 0.1 mL/vial

Description: Biotin conjugated mouse monoclonal antibody to human growth hormone (hGH)

Purification: Protein G affinity purified

Product Type: **Tracer** antibody in match antibody pair, biotin conjugated antibody

Target Protein: Human growth hormone

Immunogen: Purified recombinant hGH

Fusion Myeloma: Sp2/0-Ag14

Specificity: This monoclonal antibody reacts with natural and recombinant hGH. The affinity constant measured by Friguet's method(1985) is $1.7 \times 10^{10}/M$.

Species Reactivity: Human, others not tested

Host / Isotype: Mouse,IgG1 Kappa

Storage Buffer Formulation: 0.01M PBS pH 7.2 containing 1% gelatin and 0.1 %preclin-300

Storage: Store at -20°C. Avoid repeated freeze and thaw cycles.

Research Area: Hormone, growth and development

Background: Human growth hormone (hGH) is a 191 amino acid polypeptide secreted by the pituitary gland in the brain. The hormone is critical for height increase and stature development before puberty, and is needed for maintaining healthy organ and vitality in adults. hGH inadequacy during childhood results in short stature and over secretion of hGH causes gigantism. hGH is regulated primarily by somatocrinin and somatostatin, which are released from hypothalamus in response to physiological signals such as age, gender nutrition, excise, stress and sleep etc.

Applications: **ELISA:** In combination with capture antibody anti-hGH mAb clone YC6 (Cat.: MO-M40012A) and avidin-HRP conjugate, this biotin conjugated antibody can be used as tracer in sandwich ELISA applications for hGH detection.

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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