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AM09304HR-N Monoclonal Antibody to Somatotropin / Growth Hormone / GH1 - HRP

Alternate names: Growth hormone 1, HGH, Pituitary growth hormone

Quantity: 0.2 ml

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 somatotropic 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.

Uniprot ID: P01241

NCBI: NP_000506

GeneID: 2688

Host / Isotype: Mouse / IgG1

Clone: YC8

Immunogen: Purified Recombinant hGH

Format:
State: Liquid purified IgG fraction
Purification: Affinity Chromatography on Protein G
Buffer System: 0.01M PBS, pH 7.0 ± 0.1 in 50% Glycerol and 0.01% thimerosal as a bacteriostat
Label: HRP – Horseradish Peroxidase

Applications:
ELISA: This HRP-conjugated monoclonal antibody can be used as a Tracer/Detection Antibody in Sandwich ELISA applications for hGH detection in combination with a Capture Antibody Cat.-No DM1015.
Suggested Capture Coating Dose: 0.3 µg/ml (Substrate: TMB).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This monoclonal antibody reacts with natural and recombinant hGH.
Species: Human.
Other species not tested.
Affinity Constant: 1.7 x 10^{10}/M measured by Friguet's (1985) method.

Storage: Store (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.