

Product datasheet for **AM09304BT-N**

Growth Hormone (GH1) Mouse Monoclonal Antibody [Clone ID: YC8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	YC8
Applications:	ELISA
Recommended Dilution:	ELISA: This Biotin-conjugated monoclonal antibody can be used as a Tracer/Detection antibody in Sandwich ELISA applications for hGH detection in combination with a Capture Antibody <i>Cat.-No</i> DM1015. <i>For detection use at 1:1,000 to 1:2,000</i>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Recombinant hGH
Specificity:	This monoclonal antibody reacts with natural and recombinant hGH.
Formulation:	0.01M PBS, pH 7.2 Label: Biotin State: Liquid purified IgG fraction Stabilizer: 1% Gelatin Preservative: 0.1% Proclin-300
Purification:	Affinity Chromatography on Protein G
Conjugation:	Biotin
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	growth hormone 1
Database Link:	Entrez Gene 2688 Human P01241



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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 somatotrophic 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.

Synonyms:

Pituitary growth hormone, Growth hormone 1, HGH

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction