

## Product datasheet for **AM00859PU-N**

### Growth Hormone (GH1) Mouse Monoclonal Antibody [Clone ID: 090-11212]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	090-11212
Applications:	ELISA
Recommended Dilution:	ELISA.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	hGH isolated from human pituitary gland
Specificity:	This antibody reacts to Growth Hormone (hGH). Cross-reactivity: Synthetic hGH (Somatonorm): 100% Human Placental Lactogen: 0.02% Human Prolactin: 0.02%
Formulation:	10mM Phosphate, pH 7.4 containing 150mM Sodium chloride and 0.09% sodium azide State: Purified State: Liquid purified IgG (0.2µm filtered)
Concentration:	lot specific
Purification:	>90% pure (SDS-PAGE). Protein A chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one week or (in aliquots) at -40°C for longer. If aliquoted for long term storage, fill volume should be equal to or greater than 50% of the nominal fill volume of the vial used. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	growth hormone 1
Database Link:	<a href="#">Entrez Gene 2688 Human P01241</a>

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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