

Datasheet: MCA2864

**BATCH NUMBER 172537**

<b>Description:</b>	MOUSE ANTI HUMAN GROWTH HORMONE
<b>Specificity:</b>	GROWTH HORMONE
<b>Other names:</b>	SOMATOTROPIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	GhB9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

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**Stabilisers**

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** Purified recombinant human growth hormone.

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**External Database Links**

**UniProt:**

[P01241](#)    [Related reagents](#)

**Entrez Gene:**

[2688](#) GH1    [Related reagents](#)

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**RRID** AB\_2111138

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**Fusion Partners** Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8-653 myeloma cell line.

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**Specificity**

**Mouse anti Human Growth Hormone antibody, clone GhB9** recognizes human growth hormone (hGH), a 22 kDa polypeptide synthesised by acidophilic or somatotropic cells of the anterior pituitary gland. It is also referred to as somatotropin. Many different isoforms exist in humans, from monomers to pentamers, disulfide-linked or non-covalently associated, in homopolymeric and heteropolymeric combinations. Human GH binds to two GH receptors and induces signal transduction through receptor dimerisation. Growth hormone plays an important role in growth and cell production.

An excess of GH results in acromegaly or gigantism, characterised by excessive growth. It can also be accompanied by muscle weakness, insulin resistance and pressure on nerves. Deficiency of GH may result in lack of strength, energy and bone mass.

Growth hormone can be used to treat conditions that result in short stature or decreased muscle mass.

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**References**

1. Di Cesare, S. *et al.* (2013) High-Yield Production of PASylated Human Growth Hormone Using Secretory *E. coli* Technology [BioProcess Intl. 11: 4](#)

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2864>

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M389510:210806'

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