## Datasheet: MCA2864

### Description:
MOUSE ANTI HUMAN GROWTH HORMONE

### Specificity:
GROWTH HORMONE

### Other names:
SOMATOTROPIN

### Format:
Purified

### Product Type:
Monoclonal Antibody

### Clone:
GhB9

### Isotype:
IgG1

### Quantity:
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).

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<th>Application</th>
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<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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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.

### Target Species
Human

### Product Form
Purified IgG - liquid

### Preparation
Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

### Buffer Solution
Phosphate buffered saline

### Preservative Stabilisers
0.09% Sodium Azide (NaN₃)

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

### Immunogen
Purified recombinant human growth hormone.

### External Database
UniProt:
Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8-653 myeloma cell line.

**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.

**References**


**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
- Goat Anti Mouse IgG (STAR77...) HRP
- Rabbit Anti Mouse IgG (STAR12...) RPE
- Rabbit Anti Mouse IgG (STAR8...) DyLight®800
- Rabbit Anti Mouse IgG (STAR13...) HRP
- Goat Anti Mouse IgG (STAR76...) RPE
- Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)