Datasheet: MCA5830G
BATCH NUMBER 0112R

**Product Details**

**Description:** MOUSE ANTI HUMAN GROWTH HORMONE

**Specificity:** GROWTH HORMONE

**Other names:** SOMATOTROPIN

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 5B4

**Isotype:** IgG2a

**Quantity:** 1 mg

**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).

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td>1/5000 - 1/50000</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 appropriate negative/positive controls.

**Target Species**

Human

**Species Cross Reactivity**

Does not react with: Bovine, Pig
Reacts weakly with: Horse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form**

Purified IgG - liquid
**Preparation**
Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

**Buffer Solution**
Phosphate buffered saline

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

**Carrier Free**
Yes

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

**External Database Links**
- UniProt: [P01241](https://www.uniprot.org/uniprot/P01241)

**Specificity**
Mouse anti hGH, Clone 5B4, recognises human growth hormone, also known as somatotropin, a polypeptide synthesised by acidophilic or somatotropic cells of the anterior pituitary gland. It exists as several isoforms, including a ~20 kDa and ~22 kDa variant. Growth hormone plays an important role in growth and cell production.

**Cross reactivity profile:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human growth hormone 22 kDa</td>
<td>100%</td>
</tr>
<tr>
<td>Human placental growth hormone</td>
<td>100%</td>
</tr>
<tr>
<td>Human growth hormone 20 kDa</td>
<td>50%</td>
</tr>
<tr>
<td>Methionyl human growth hormone</td>
<td>0.5%</td>
</tr>
<tr>
<td>Growth hormone receptor</td>
<td>0.3%</td>
</tr>
<tr>
<td>Human placental lactogen</td>
<td>0.002%</td>
</tr>
<tr>
<td>Human thyroid stimulating hormone</td>
<td>0%</td>
</tr>
<tr>
<td>Human chorionic gonadotropin</td>
<td>0%</td>
</tr>
<tr>
<td>Human luteinizing hormone</td>
<td>0%</td>
</tr>
<tr>
<td>Human follicle stimulating hormone</td>
<td>0%</td>
</tr>
<tr>
<td>Human prolactin</td>
<td>0%</td>
</tr>
<tr>
<td>Horse growth hormone</td>
<td>0.007%</td>
</tr>
<tr>
<td>Bovine growth hormone</td>
<td>0%</td>
</tr>
<tr>
<td>Pig growth hormone</td>
<td>0%</td>
</tr>
</tbody>
</table>

**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 (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)  FITC

<table>
<thead>
<tr>
<th>Region</th>
<th>Tel</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>North &amp; South America</td>
<td>+1 800 265 7376</td>
<td>+1 919 878 3751</td>
<td><a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a></td>
</tr>
<tr>
<td>Worldwide</td>
<td>+44 (0)1865 852 700</td>
<td>+44 (0)1865 852 739</td>
<td><a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a></td>
</tr>
<tr>
<td>Europe</td>
<td>+49 (0) 89 8090 95 21</td>
<td>+49 (0) 89 8090 95 50</td>
<td><a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a></td>
</tr>
</tbody>
</table>

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M368438:200529'

Printed on 22 Aug 2023

© 2023 Bio-Rad Laboratories Inc  |  Legal  |  Imprint