

## Datasheet: MCA5828G

**BATCH NUMBER 0112**

<b>Description:</b>	MOUSE ANTI HUMAN PLACENTAL GROWTH HORMONE
<b>Specificity:</b>	PLACENTAL GROWTH HORMONE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	78.7C12
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	1 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	▪			1/5000 - 1/50000
Immunoprecipitation			▪	
Western Blotting			▪	

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01242</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2689</a>    GH2    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Mouse anti Human Placental Growth Hormone, clone 78.7C12</b> recognises the placenta-specific variant of human growth hormone, also known as growth hormone 2 (GH2). It plays an important role in growth control.</p> <p>Mouse anti Human Placental Growth Hormone, clone 78.7C12 shows some cross reactivity with human pituitary growth hormone (~5%), but does not react with human placental lactogen or human prolactin.</p> <p>Mouse anti Human Placental Growth Hormone, clone 78.7C12 has been used successfully as a detection reagent for human placental growth hormone following biotinylation in a sandwich ELISA with Mouse anti Human Placental Growth Hormone, clone 78.8E8 (<a href="#">MCA5827G</a>) as a capture reagent (<a href="#">Laio et al. 2017</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Liao, S. <i>et al.</i> (2017) Maternal serum IGF-1, IGFBP-1 and 3, and placental growth hormone at 20weeks' gestation in pregnancies complicated by preeclampsia. <a href="#">Pregnancy Hypertens. 10: 149-54.</a></li> <li>Liao, S. <i>et al.</i> (2017) Maternal serum placental growth hormone, insulin-like growth factors and their binding proteins at 20 weeks' gestation in pregnancies complicated by gestational diabetes mellitus. <a href="#">Hormones (Athens). 16 (3): 282-290.</a></li> <li>Liao, S. <i>et al.</i> (2016) Human placental growth hormone is increased in maternal serum at 20 weeks of gestation in pregnancies with large-for-gestational-age babies. <a href="#">Growth Factors. 34 (5-6): 203-209.</a></li> <li>Liao, S. <i>et al.</i> (2019) Increased maternal serum placental growth hormone variant in pregnancies complicated by otosclerosis. <a href="#">Clin Otolaryngol. 44 (5): 757-61.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5828G">https://www.bio-rad-antibodies.com/SDS/MCA5828G</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</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>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

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

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