

Datasheet: MCA5828G

Description:	MOUSE ANTI HUMAN PLACENTAL GROWTH HORMONE
Specificity:	PLACENTAL GROWTH HORMONE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	78.7C12
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
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 (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
External Database Links	UniProt: P01242 Related reagents

Entrez Gene:[2689](#) GH2 [Related reagents](#)

Specificity **Mouse anti Human Placental Growth Hormone, clone 78.7C12** recognises the placenta-specific variant of human growth hormone, also known as growth hormone 2 (GH2). It plays an important role in growth control.

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.

Mouse anti Human Placental Growth Hormone, clone 78.7C12 has been used successfully as a detection reagent for human placental growth hormone following biotinylation using a LYNX rapid biotin antibody conjugation kit ([LNK041B](#)) in a sandwich ELISA with Mouse anti Human Placental Growth Hormone, clone 78.8E8 ([MCA5827G](#)) as a capture reagent ([Laio et al. 2017](#)).

References

1. Liao, S. *et al.* (2017) Maternal serum IGF-1, IGFBP-1 and 3, and placental growth hormone at 20weeks' gestation in pregnancies complicated by preeclampsia. [Pregnancy Hypertens. 10: 149-54.](#)
2. Liao, S. *et al.* (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. [Hormones \(Athens\). 16 \(3\): 282-290.](#)
3. Liao, S. *et al.* (2016) Human placental growth hormone is increased in maternal serum at 20 weeks of gestation in pregnancies with large-for-gestational-age babies. [Growth Factors. 34 \(5-6\): 203-209.](#)

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

18 months from date of despatch.

Health And Safety Information

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

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 \(MCA928\)](#)

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