Datasheet: MCA5828G

BATCH NUMBER 163603

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 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. 4. Liao, S. *et al.* (2019) Increased maternal serum placental growth hormone variant in pregnancies complicated by otosclerosis. Clin Otolaryngol. 44 (5): 757-61.
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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5828G 10040

Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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

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