Datasheet: 2090-1614

BATCH NUMBER 164676

Description:	MOUSE ANTI hCG BETA (FREE SPECIFIC)
Specificity:	hCG BETA (FREE SPECIFIC)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	P1G7F12 (BIO-BCG-005)
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
Radioimmunoassays	▪			

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 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 1.0 mg/ml
Immunogen	Human Chorionic Gonadotropin beta subunit from human pregnancy urine

External Database Links	**UniProt:** P01233 Related reagents **Entrez Gene:** 1082 CGB Related reagents
Synonyms	CGB3
RRID	AB_2078963
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the P3X63-Ag 8.653 myeloma cell line
Specificity	**Mouse anti hCG beta (free specific) antibody, clone P1G7F12 (BIO-BCG-005)** recognizes the beta subunit of human chorionic gonadotropin (hCG). Minimal cross-reactivity (0.5%) has been observed with the intact hCG molecule and negligible reactivity has been shown with the human luteinizing hormone (LH), follicle-stimulating hormone (FSH) and thyroid-stimulating hormone (TSH). Human chorionic gonadotropin exists in 5 different variants (hCG, sulfated hCG, hyperglycosylated hCG, free beta hCG and hyperglycosylated free beta) that share the same amino acid sequence but have different functions (Cole 2012). hCG is a glycoprotein of 237 amino acids. Regular hCG has a molecular mass of ~36 kDa where oligosaccharides account for 25-30% of the MW (Cole 2010). hCG is composed of a 92-amino acid alpha subunit, common to the LH, FSH and TSH hormones, and of a unique beta subunit, which is recognized by Mouse anti hCG beta antibody, clone P1G7F12. Production of progesterone is not the only role of hCG: it also has numerous other functions, during pregnancy and as a marker for certain cancers (Cole 2012), (Cole 2010) and (Cole 2009).
Further Reading	1. Cole, L.A. (2009) Human chorionic gonadotropin tests. Expert Rev Mol Diagn. 9:721-47 2. Cole, L.A. (2010) Biological functions of hCG and hCG-related molecules. Reprod Biol Endocrinol. 8:102-115. 3. Cole, L.A. (2012) hCG, the wonder of today's science. Reprod Biol Endocrinol. 10:24-41
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/2090-1614 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...)	RPE
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
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	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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