

Datasheet: 2090-1614

BATCH NUMBER 170624

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	<p>Mouse anti hCG beta (free specific) antibody, clone P1G7F12 (BIO-BCG-005) recognizes the beta subunit of human chorionic gonadotropin (hCG).</p> <p>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).</p> <p>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.</p> <p>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).</p>
Further Reading	<ol style="list-style-type: none"> 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	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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>

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 \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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