

Datasheet: MCA329

BATCH NUMBER 166328

Description:	MOUSE ANTI hCG (BETA 2 EPITOPE)
Specificity:	hCG (BETA 2 EPITOPE)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	INN-hCG-22
Isotype:	IgG1
Quantity:	0.5 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	▪			1/100 - 1/500
Immunoprecipitation			▪	
Western Blotting	▪			Non-reducing conditions
Immunofluorescence	▪			
Immunoassay	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody 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

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	hCG.
External Database Links	<p>UniProt: P01233 Related reagents</p> <p>Entrez Gene: 1082 CGB Related reagents</p>
Synonyms	CGB3
RRID	AB_2276154
Fusion Partners	Spleen cells from an immunised BALB/c mouse were fused with cells of the mouse myeloma cell line P3 - NS1/1 - Ag 4.1.
Specificity	<p>Mouse anti Human chorionic gonadotrophin antibody, clone INN-hCG-22 recognizes the beta subunit of human choriogonadotrophin (hCG), also known as chorionic gonadotrophin. hCGβ is a 165 amino acid ~18 kDa hormone involved in the stimulation of steroid production essential to the maintenance of pregnancy.</p> <p>Mouse anti Human chorionic gonadotrophin antibody, clone INN-hCG-22 shows a strong reaction in RIA with intact hCG and hCGβ and some reactivity with human luteinizing hormone (12%) and b-hLH (34%). No reaction with human follicle-stimulating hormone, thyroid-stimulating hormone , a-hCG or a-hLH.</p> <p>Affinity constant = 1.6×10^9m (Ka) .</p>
References	<ol style="list-style-type: none"> Schwarz, S. <i>et al.</i> (1985) Epitope-selective, monoclonal-antibody-based immunoradiometric assays of predictable specificity for differential measurement of choriogonadotrophin and its subunits. Clin Chem. 31 (8): 1322-8. Birken, S. <i>et al.</i> (2003) Preparation and characterization of new WHO reference reagents for human chorionic gonadotropin and metabolites. Clin Chem. 49: 144-54. Zimmermann, G. <i>et al.</i> (2003) Expression of beta hCG and alpha CG mRNA and hCG hormone in human decidual tissue in patients during tubal pregnancy. Mol Hum Reprod. 9: 81-9. Charrel-Dennis, M. <i>et al.</i> (2005) The human chorionic gonadotropin-beta arginine68 to glutamic acid substitution fixes the conformation of the C-terminal peptide. Mol Endocrinol. 19:1803-11. Zimmermann, G. <i>et al.</i> (2009) Epithelial human chorionic gonadotropin is expressed and produced in human secretory endometrium during the normal menstrual cycle. Biol Reprod. 80:1053-65. Yoshie, M. <i>et al.</i> (2010) Possible role of the exchange protein directly activated by cyclic

AMP (Epac) in the cyclic AMP-dependent functional differentiation and syncytialization of human placental BeWo cells. [Hum Reprod. 25 \(9\): 2229-38.](#)

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9. Zimmermann, G. *et al.* (2012) Expression and production of human chorionic gonadotropin (hCG) in the normal secretory endometrium: evidence of CGB7 and/or CGB6 beta hCG subunit gene expression. [Biol Reprod. 86 \(3\): 87.](#)

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/MCA329>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [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](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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