Datasheet: MCA329

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	**UniProt:** P01233 Related reagents **Entrez Gene:** 1082 CGB Related reagents
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	**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. 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. Affinity constant = 1.6 x 10^9m (Ka) .
References	1. Schwarz, S. *et al.* (1985) Epitope-selective, monoclonal-antibody-based immunoradiometric assays of predictable specificity for differential measurement of choriogonadotropin and its subunits. Clin Chem. 31 (8): 1322-8. 2. Birken, S. *et al.* (2003) Preparation and characterization of new WHO reference reagents for human chorionic gonadotropin and metabolites. Clin Chem. 49: 144-54. 3. Zimmermann, G. *et al.* (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. 4. Charrel-Dennis, M. *et al.* (2005) The human chorionic gonadotropin-beta arginine68 to glutamic acid substitution fixes the conformation of the C-terminal peptide. Mol Endocrinol. 19:1803-11. 5. Zimmermann, G. *et al.* (2009) Epithelial human chorionic gonadotropin is expressed and produced in human secretory endometrium during the normal menstrual cycle. Biol Reprod. 80:1053-65. 6. Yoshie, M. *et al.* (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.

7. Neuhaus, J. *et al.* (2011) New aspects in the differential diagnosis and therapy of bladder pain syndrome/interstitial cystitis. Adv Urol. ;2011:639479.
8. Aye, I.L.M.H. *et al.* (2011) Oxysterols inhibit differentiation and fusion of term primary trophoblasts by activating liver X receptors Placenta. 32: 183-91.
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

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

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