

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
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

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. hCG β 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 hCG β 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 = 1.6×10^9 m (Ka) .

References

1. Kofler, R. *et al.* (1982) Monoclonal antibodies against human chorionic gonadotropin (hCG): I. production, specificity, and intramolecular binding sites. [Am J Reprod Immunol. 2 \(4\): 212-6.](#)
2. 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.](#)
3. 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.](#)
4. 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.](#)
5. 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.](#)
6. Birken, S. *et al.* (2003) Preparation and characterization of new WHO reference reagents for human chorionic gonadotropin and metabolites. [Clin Chem. 49: 144-54.](#)
7. 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.](#)
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.](#)
10. Neuhaus, J. *et al.* (2011) New aspects in the differential diagnosis and therapy of bladder pain syndrome/interstitial cystitis. [Adv Urol. ;2011:639479.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before

use.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

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
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