

Datasheet: MCA19

Description:	MOUSE ANTI hCG (BETA 1 EPITOPE)
Specificity:	hCG (BETA 1 EPITOPE)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	INN-hCG-2
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	■			
Immunoprecipitation			■	
Western Blotting			■	
Radioimmunoassays	■			
Immunoassay	■			

Where this antibody 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 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	Ig 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 the mouse P3-NS1/1 - Ag 4.1 myeloma cell line.
Specificity	Mouse anti hCG antibody, clone INN-hCG-2 recognizes the beta 1 epitope on human chorionic gonadotrophin (hCG). Chorionic gonadotrophin is a member of the glycoprotein hormone family that is synthesized by the placenta throughout pregnancy. The glycoprotein hormone family has 4 members, the other three being luteinising hormone (LH), follicle stimulating hormone (FSH) and thyroid stimulating hormone (TSH). All consist of two subunits, alpha and beta. The alpha subunit is highly homologous between family members. Mouse anti hCG antibody, clone INN-hCG-2 is reactive with hCG, hCGbeta, hCGbetacf (fragment), hCGn (nicked), hCGbetan, and CTP-hCG. No cross reaction is observed with hLH, hLHbeta, hFSH, hTSH, or the glycoprotein hormone alpha chains.
References	1. Kofler, R. <i>et al.</i> (1982) Monoclonal antibodies against human chorionic gonadotropin (hCG): I. production, specificity, and intramolecular binding sites. Am J Reprod Immunol. 2 (4): 212-6. 2. Berger, P. <i>et al.</i> (1993) Variants of human chorionic gonadotropin from pregnant women and tumor patients recognized by monoclonal antibodies. J Clin Endocrinol Metab. 77 (2): 347-51. 3. Zimmermann, G. <i>et al.</i> (2009) Zimmermann G, Ackermann W, Alexander H. Epithelial human chorionic gonadotropin is expressed and produced in human secretory endometrium during the normal menstrual cycle. Biol Reprod. 2009 May;80(5):1053-65. Epub 2009 Jan 21. PubMed PMID: 19164178. Biol Reprod. 80:1053-65. 4. 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. 5. 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. 6. Schwalenberg, T. <i>et al.</i> (2012) Enhanced urothelial expression of human chorionic gonadotropin beta (hCGβ) in bladder pain syndrome/interstitial cystitis (BPS/IC). World J Urol. 30 (3): 411-7.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. 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
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , 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

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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