

## Datasheet: MCA19

**BATCH NUMBER 162876**

<b>Description:</b>	MOUSE ANTI hCG (BETA 1 EPITOPE)
<b>Specificity:</b>	hCG (BETA 1 EPITOPE)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	INN-hCG-2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	Ig concentration 1.0 mg/ml
<b>Immunogen</b>	hCG.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01233</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1082</a>    CGB    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CGB3
<b>RRID</b>	AB_2260450
<b>Fusion Partners</b>	Spleen cells from an immunised BALB/c mouse were fused with the mouse P3-NS1/1 - Ag 4.1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti hCG antibody, clone INN-hCG-2</b> recognizes the beta 1 epitope on human chorionic gonadotrophin (hCG).</p> <p>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.</p> <p>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.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Kofler, R. <i>et al.</i> (1982) Monoclonal antibodies against human chorionic gonadotropin (hCG): I. production, specificity, and intramolecular binding sites. <a href="#">Am J Reprod Immunol. 2 (4): 212-6.</a></li> <li>2. Berger, P. <i>et al.</i> (1993) Variants of human chorionic gonadotropin from pregnant women and tumor patients recognized by monoclonal antibodies. <a href="#">J Clin Endocrinol Metab. 77 (2): 347-51.</a></li> <li>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. <a href="#">Biol Reprod. 80:1053-65.</a></li> <li>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. <a href="#">Mol Hum Reprod. 9: 81-9.</a></li> </ol>

5. 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.](#)
6. Schwalenberg, T. *et al.* (2012) Enhanced urothelial expression of human chorionic gonadotropin beta (hCG $\beta$ ) in bladder pain syndrome/interstitial cystitis (BPS/IC). [World J Urol. 30 \(3\): 411-7.](#)

<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1910040">https://www.bio-rad-antibodies.com/SDS/MCA1910040</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

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Printed on 20 Sep 2023