

Datasheet: MCA329

BATCH NUMBER 151491

| | |
|----------------------|---------------------------------|
| 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 | <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"> 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. Schwarz, S. <i>et al.</i> (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. <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. 4. 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. 5. 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. 6. 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. |

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.](#)
11. Amantea, D. *et al.* (2016) Neuroprotective Properties of a Macrolide Antibiotic in a Mouse Model of Middle Cerebral Artery Occlusion: Characterization of the Immunomodulatory Effects and Validation of the Efficacy of Intravenous Administration. [Assay Drug Dev Technol. 14 \(5\): 298-307.](#)

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.

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](#)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M367574:200529'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)