

## Datasheet: MCA1026

|                      |                                  |
|----------------------|----------------------------------|
| <b>Description:</b>  | MOUSE ANTI hCG (ALPHA 4 EPITOPE) |
| <b>Specificity:</b>  | hCG (ALPHA 4 EPITOPE)            |
| <b>Format:</b>       | Purified                         |
| <b>Product Type:</b> | Monoclonal Antibody              |
| <b>Clone:</b>        | INN-hFSH-132                     |
| <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 (1) | ■   |    |                |                    |
| ELISA                          | ■   |    |                | 1ng/ml - 30ng/ml   |
| Immunoprecipitation            | ■   |    |                |                    |
| Western Blotting               | ■   |    |                |                    |

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.

**(1) This product requires antigen retrieval using steam heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

|                                       |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| <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>Approx. Protein Concentrations</b> | IgG concentration 1 mg/ml                                                  |
| <b>Immunogen</b>                      | Human Follicle Stimulating Hormone (FSH).                                  |
| <b>External Database Links</b>        | <b>UniProt:</b><br><a href="#">P01215</a> <a href="#">Related reagents</a> |

**Entrez Gene:**[1081](#) CGA [Related reagents](#)

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fusion Partners</b>               | Spleen cells from immunised mice were fused with cells of the X63-Ag8.653 myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>                   | <p><b>Mouse anti hCG (Alpha 4 Epitope) antibody, clone INN-hFSH-132</b> is a high affinity antibody recognising the alpha 4 epitope of the alpha-subunit of Human Chorionic Gonadotrophin (hCG), hLH, hFSH, hTSH and free alpha-subunit.</p> <p>The recognised epitope comprises amino-acids alpha 15 to alpha 22 of the human sequence.</p> <p>Mouse anti hCG (Alpha 4 Epitope) antibody, clone INN-hFSH-132 will not cross-react with glycoprotein hormones of various animal species.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>References</b>                    | <ol style="list-style-type: none"><li>Berger, P. <i>et al.</i> (1988) Antigenic features of human follicle stimulating hormone delineated by monoclonal antibodies and construction of an immunoradiometric assay. <a href="#">Endocrinology. 123 (5): 2351-9.</a></li><li>Berger, P. <i>et al.</i> (1990) Monoclonal antibodies against the free subunits of human chorionic gonadotrophin. <a href="#">J Endocrinol. 125 (2): 301-9.</a></li><li>Dirnhofer, S. <i>et al.</i> (1994) Free alpha subunit of human chorionic gonadotrophin: molecular basis of immunologically and biologically active domains. <a href="#">J Endocrinol. 140 (1): 145-54.</a></li><li>Zimmermann, G. <i>et al.</i> (2009) Epithelial human chorionic gonadotropin is expressed and produced in human secretory endometrium during the normal menstrual cycle. <a href="#">Biol Reprod. 80:1053-65.</a></li><li>Untergasser, G. <i>et al.</i> (2001) Seminal plasma factors induce in vitro PRL secretion in smooth muscle cells of the human prostate. <a href="#">J Clin Endocrinol Metab. 86: 5577-84.</a></li><li>Zenzmaier, C. <i>et al.</i> (2011) Decreased levels of genuine large free hCG alpha in men presenting with abnormal semen analysis. <a href="#">Reprod Biol Endocrinol. 9: 114.</a></li></ol> |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</p> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Shelf Life</b>                    | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at:<br>10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Related Products

### Recommended Secondary Antibodies

|                                         |                                                  |
|-----------------------------------------|--------------------------------------------------|
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>                              |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>                             |
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>                              |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>                              |

|                                        |                                                                                                                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Goat Anti Mouse IgG (Fc) (STAR120...)  | <a href="#">FITC</a> , <a href="#">HRP</a>                                                                                                                                                                                          |
| Rabbit Anti Mouse IgG (STAR8...)       | <a href="#">DyLight®800</a>                                                                                                                                                                                                         |
| Goat Anti Mouse IgG (STAR70...)        | <a href="#">FITC</a>                                                                                                                                                                                                                |
| Rabbit Anti Mouse IgG (STAR13...)      | <a href="#">HRP</a>                                                                                                                                                                                                                 |
| Human Anti Mouse IgG1 (HCA036...)      | <a href="#">HRP</a>                                                                                                                                                                                                                 |
| Goat Anti Mouse IgG (H/L) (STAR117...) | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®549</a> ,<br><a href="#">DyLight®649</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
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'M317552:180703'

Printed on 11 Jul 2018