

## Datasheet: MCA6200GA

<b>Description:</b>	MOUSE ANTI HUMAN PROLACTIN
<b>Specificity:</b>	PROLACTIN
<b>Other names:</b>	PRL
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	C01-2B2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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
ELISA	▪			1.0 ug/ml

Where this product 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 product 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 G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

**Immunogen** *E. coli* derived recombinant human prolactin (Leu29-Cys227)

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**External Database Links**

**UniProt:**

[P01236](#) [Related reagents](#)

**Entrez Gene:**

[5617](#) PRL [Related reagents](#)

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**Fusion Partners**

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

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**Specificity**

**Mouse anti Human prolactin antibody, clone C01-2B2**, recognizes prolactin a peptide hormone expressed by many cell types including the pituitary gland, decidua, ovary, prostate, mammary gland, adipose tissue, brain and immune cells. Of the immune cells, prolactin is secreted by dendritic cells, thymocytes, T cells, B cells, monocytes and macrophages ([Borba et al. 2018](#)). Prolactin now has a reported >300 separate biological activities, since it was first discovered as a stimulator of crop milk in pigeons and a promotor of lactation in rabbits ([Freeman et al. 2000](#)). In the immune system prolactin acts as a cytokine. In an example, prolactin is able to regulate innate and adaptive immune responses through the maturation of CD4<sup>-</sup> CD8<sup>-</sup> thymocytes to CD4<sup>+</sup> CD8<sup>+</sup> T cells via IL-2 receptor expression. Prolactin is also able to stimulate the development of antigen presenting cells expressing major histocompatibility complex class II ([Borba et al. 2018](#)). Where patients have an abnormally high level of circulating prolactin (hyperprolactinemia) this can result in the impairment of B cell clonal deletion, deregulation or receptor editing, as well as the diminishment of the threshold for B cell activation, promoting auto-reactivity ([Borba et al. 2018](#)).

The purified Mouse anti Human prolactin antibody, clone C01-2B2 (MCA6200GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human prolactin antibody, clone C03-3E9 ([MCA6201B](#)) as the detection antibody.

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>

### Recommended Negative Controls

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

### Recommended Useful Reagents

[MOUSE ANTI HUMAN PROLACTIN:Biotin \(MCA6201B\)](#)

### ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN PROLACTIN:Biotin \(MCA6201B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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