

Datasheet: MCA6200GA

Description:	MOUSE ANTI HUMAN PROLACTIN
Specificity:	PROLACTIN
Other names:	PRL
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C01-2B2
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

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

External Database Links

UniProt:

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

Entrez Gene:

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

Fusion Partners

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

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⁻ CD8⁻ thymocytes to CD4⁺ CD8⁺ 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.

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.

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/MCA6200GA>
10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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