

Datasheet: MCA6226GA

**BATCH NUMBER 100005289**

<b>Description:</b>	MOUSE ANTI HUMAN CYSTATIN C
<b>Specificity:</b>	CYSTATIN C
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	B01-8B1
<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
<b>Immunogen</b>	<i>E. coli</i> derived recombinant human full length cystatin C (Ser27-Ala146)

<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01034</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1471</a>    CST3    <a href="#">Related reagents</a></p>
<b>Fusion Partners</b>	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
<b>Specificity</b>	<p><b>Mouse anti Human cystatin C antibody, clone B01-8B1</b>, recognizes cystatin C, a small non-glycosylated 13.3 kDa basic cysteine inhibitor and a member of the Cystatin superfamily. Cystatin C is widely expressed in all nucleated cells in the body. It is also secreted from cells into circulation and other biological fluids including urine, seminal fluid, saliva and cerebrospinal fluid (<a href="#">Mussap &amp; Plebani 2004</a>).</p> <p>Cystatin C specifically inhibits cysteine proteases such as papain, legumain and the cathepsins B, H, K, L and S. Through the regulation of cysteine proteases, it plays a role in various biological processes including immune responses, protein turnover, phagocytosis, antigen presentation and apoptosis (<a href="#">Zi &amp; Xu 2018</a>). When released into the blood, cystatin C is filtered by the glomerous and metabolised by proximal tubular cells. Because of this filtration of cystatin C by the kidneys, this inhibitor is commonly used clinically as a biomarker of kidney function. (<a href="#">Zi &amp; Xu 2018</a>). Within immunological processes, cystatin C regulates proteolytic processing of pro-granzymes, MHC II antigen presentation and maturation of dendritic cells (<a href="#">Pierre &amp; Mellman 1998</a>).</p> <p>Cystatin C is encoded by the gene CST3 and mutations of this gene are responsible for the heritable disease, cerebral amyloid angiopathy (<a href="#">Jurczak et al. 2016</a>).</p> <p>The purified Mouse anti Human cystatin C antibody, clone B01-8B1 (MCA6226GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human cystatin C antibody, clone E01-8H8 (<a href="#">MCA6227B</a>) as the detection antibody.</p>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.          Storage in frost-free freezers is not recommended.          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>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/MCA6226GA">https://www.bio-rad-antibodies.com/SDS/MCA6226GA</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<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 (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

## Recommended Useful Reagents

[MOUSE ANTI HUMAN CYSTATIN C:Biotin \(MCA6227B\)](#)

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