

## Datasheet: MCA6227B

<b>Description:</b>	MOUSE ANTI HUMAN CYSTATIN C:Biotin
<b>Specificity:</b>	CYSTATIN C
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	E01-8H8
<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 conjugated to Biotin - 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> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	<i>E. coli</i> derived recombinant human full length cystatin C (Ser27-Ala146)
<b>External Database Links</b>	<b>UniProt:</b>

[P01034](#)   [Related reagents](#)

**Entrez Gene:**

[1471](#)   CST3   [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 cystatin C antibody, clone E01-8H8** , 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 ([Mussap & Plebani 2004](#)).

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 ([Zi & Xu 2018](#)). 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. ([Zi & Xu 2018](#)). Within immunological processes, cystatin C regulates proteolytic processing of pro-granzymes, MHC II antigen presentation and maturation of dendritic cells ([Pierre & Mellman 1998](#)).

Cystatin C is encoded by the gene CST3 and mutations of this gene are responsible for the heritable disease, cerebral amyloid angiopathy ([Jurczak et al. 2016](#)).

The biotinylated Mouse anti Human cystatin C antibody, clone E01-8H8 (MCA6227B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human cystatin C antibody, clone B01-8B1 (MCA6226GA) as the capture 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 #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**   For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HUMAN CYSTATIN C \(MCA6226GA\)](#)

**North & South** Tel: +1 800 265 7376

**Worldwide** Tel: +44 (0)1865 852 700

**Europe** Tel: +49 (0) 89 8090 95 21

**America** Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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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