

Datasheet: MCA6227B

BATCH NUMBER 64615998

Description:	MOUSE ANTI HUMAN CYSTATIN C:Biotin
Specificity:	CYSTATIN C
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	E01-8H8
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 conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	<i>E. coli</i> derived recombinant human full length cystatin C (Ser27-Ala146)

**External Database
Links**

UniProt:

[P01034](#) [Related reagents](#)

Entrez Gene:

[1471](#) CST3 [Related reagents](#)

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

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.

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 #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6227B>
10041

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

MOUSE ANTI HUMAN CYSTATIN C (MCA6226GA)

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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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