

Datasheet: MCA6217B

Description:	MOUSE ANTI HUMAN A2M:Biotin
Specificity:	A2M
Other names:	Alpha-2-macroglobulin
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	M5
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 Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	<i>E. coli</i> derived recombinant human A2M (Ser24-Ala1474)

**External Database
Links**

UniProt:

[P01023](#) [Related reagents](#)

Entrez Gene:

[2](#) A2M [Related reagents](#)

Synonyms

CPAMD5

Fusion Partners

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

Specificity

Mouse anti Human A2M antibody, clone M5, recognizes alpha-2-macroglobulin (A2M), also known as CPAMD5. A2M is a major proteinase inhibitor, with the ability to bind most proteinases and many growth factors, hormones and cytokines in human blood and tissue ([Kurz et al. 2017](#)). A2M is largely produced by the liver under conditions of stress, and is then secreted into the blood and extracellular spaces. It is also produced locally by macrophages, fibroblasts, and epithelial cells ([Kim et al. 2017](#)).

A2M levels dramatically decrease as humans age, a process which has been hypothesized to facilitate tumor development. In naked mole rats, a species with pronounced resistance to cancer, A2M has been shown to inhibit tumor growth regardless of tumor origin ([Kurz et al. 2017](#)).

The biotinylated Mouse anti Human A2M antibody, clone M5 (MCA6217B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human A2M antibody, clone M17 ([MCA6216GA](#)) 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/MCA6217B>
10041

Regulatory

For research purposes only

Related Products

ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN A2M \(MCA6216GA\)](#)

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

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