

**alpha-2-macroglobulin Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4074a****Specification**

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**alpha-2-macroglobulin Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P01023</a>
Other Accession	<a href="#">NP_000005.2, 2</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	163291

**alpha-2-macroglobulin Antibody (internal region) - Additional Information****Gene ID 2****Other Names**

Alpha-2-macroglobulin, Alpha-2-M, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5, A2M, CPAMD5

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

alpha-2-macroglobulin Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**alpha-2-macroglobulin Antibody (internal region) - Protein Information****Name A2M****Synonyms CPAMD5****Function**

Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following

cleavage in the bait region, a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase.

**Cellular Location**

Secreted.

**Tissue Location**

Secreted in plasma..

**alpha-2-macroglobulin Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**alpha-2-macroglobulin Antibody (internal region) - Images**

AF4074a (0.5 µg/ml) staining of Human Albumin-depleted Serum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**alpha-2-macroglobulin Antibody (internal region) - References**

Inhibition of beta2-microglobulin amyloid fibril formation by alpha2-macroglobulin. Ozawa D, Hasegawa K, Lee YH, Sakurai K, Yanagi K, Ookoshi T, Goto Y, Naiki H. The Journal of biological chemistry 2011 Mar 286 (11): 9668-76. PMID: 21216953