

**Macroglobulin  $\alpha$ -2 Polyclonal Antibody**  
**Catalog # AP73551****Specification**

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**Macroglobulin  $\alpha$ -2 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P01023</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

**Macroglobulin  $\alpha$ -2 Polyclonal Antibody - Additional Information****Gene ID 2****Other Names**

A2M; CPAMD5; FWP007; Alpha-2-macroglobulin; Alpha-2-M; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Macroglobulin  $\alpha$ -2 Polyclonal Antibody - 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**

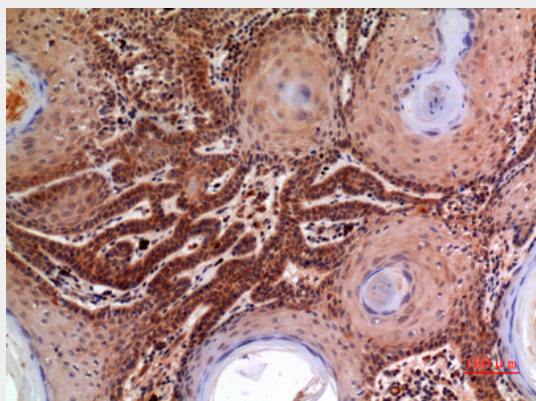
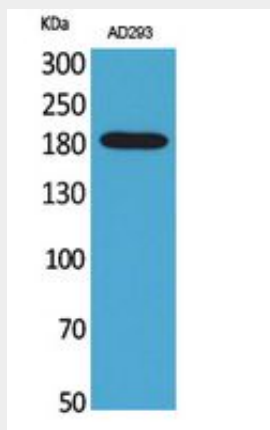
Secreted in plasma..

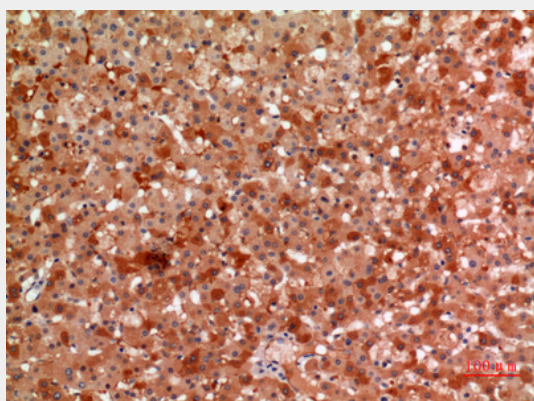
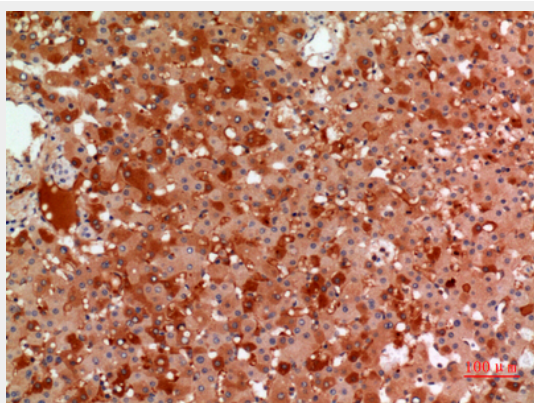
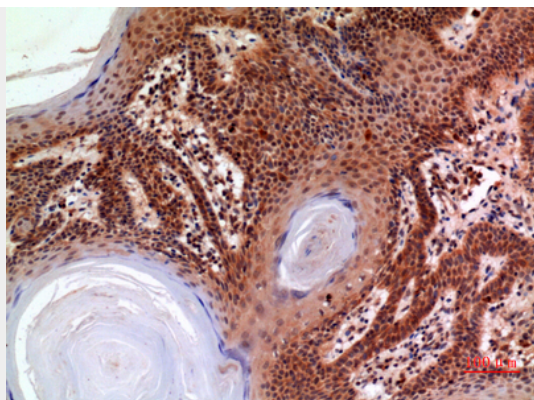
### Macroglobulin $\alpha$ -2 Polyclonal Antibody - Protocols

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](#)

### Macroglobulin $\alpha$ -2 Polyclonal Antibody - Images





### Macroglobulin $\alpha$ -2 Polyclonal Antibody - Background

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.