



# Macroglobulin $\alpha$ -2 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-03950
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	IHC;IF;ELISA
<b>Gene Name</b>	A2M
<b>Protein Name</b>	Alpha-2-macroglobulin
<b>Immunogen</b>	Synthesized peptide derived from Macroglobulin $\alpha$ -2 . at AA range: 1100-1180
<b>Specificity</b>	Macroglobulin $\alpha$ -2 Polyclonal Antibody detects endogenous levels of Macroglobulin $\alpha$ -2 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	A2M; CPAMD5; FWP007; Alpha-2-macroglobulin; Alpha-2-M; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5
<b>Observed Band</b>	
<b>Cell Pathway</b>	Secreted .
<b>Tissue Specificity</b>	Secreted in plasma.
<b>Function</b>	developmental stage:Contrary to the rat protein, which is an acute phase protein, this protein is always present at high levels in circulation.,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.,online information:Alpha-2 macroglobulin entry,similarity:Belongs to the protease inhibitor I39 (alpha-2-macroglobulin) family.,s
<b>Background</b>	Alpha-2-macroglobulin is a protease inhibitor and cytokine transporter. It inhibits many proteases, including trypsin, thrombin and collagenase. A2M is implicated in



Alzheimer disease (AD) due to its ability to mediate the clearance and degradation of A-beta, the major component of beta-amyloid deposits. [provided by RefSeq, Jul 2008],

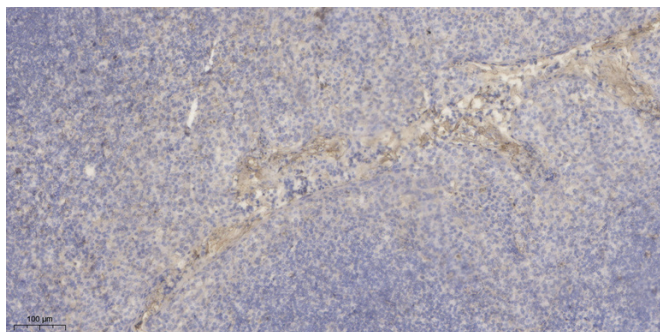
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).