

A2M Antibody

Rabbit mAb

Catalog # AP91252

Product Information

Application	WB, IHC
Primary Accession	P01023
Reactivity	Human
Clonality	Monoclonal
Other Names	A2m; Alpha 2M; Alpha-2-macroglobulin; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; CPAMD5; FWP007; S863 7;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	163291

Additional Information

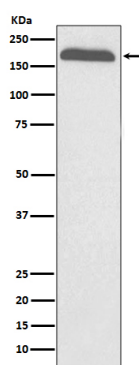
Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human A2M
Description	Alpha-2-macroglobulin is a protease inhibitor and cytokine transporter. It inhibits many proteases, including trypsin, thrombin and collagenase. A2M is implicated in Alzheimer disease (AD) due to its ability to mediate the clearance and degradation of A-beta, the major component of beta-amyloid deposits.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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..

Images



Western blot analysis of A2M expression in human plasma lysate.

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