

Summary

Production Name	A2M (2T11) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
lsotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at $\pm 4^{\circ}$ C short term. Store at $\pm 20^{\circ}$ C long term.
builer	Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	A2M
Alternative Names	A2m; Alpha 2M; Alpha-2-macroglobulin; C3 and PZP-like alpha-2-macroglobulin
	domain-containing protein 5; CPAMD5; FWP007; S863 7;
Gene ID	2.0
SwissProt ID	P01023.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	163kDa

Product Name: A2M (2T11) Rabbit Monoclonal Antibody Catalog #: AMRe06369

Background

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. 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.

EnkiLife

Research Area

Image Data



Western blot analysis of A2M expression in human plasma lysate.

Note

For research use only.