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Rabbit Anti-alpha 2 Macroglobulin antibody

SL9505R

Product Name:	alpha 2 Macroglobulin
Chinese Name:	α2巨球蛋白(α-2M)抗体
Alias:	A2M; A2MG_HUMAN; Alpha 2 M; Alpha 2M; Alpha-2-M; Alpha-2-macroglobulin; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; CPAMD5; DKFZp779B086; FWP007; S863 7.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	160kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human alpha 2 Macroglobulin:751-850/1474
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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].

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.

Subunit:
Homotetramer; disulfide-linked.

Subcellular Location:
Secreted

Tissue Specificity:
Secreted in plasma

Similarity:
Belongs to the protease inhibitor I39 (alpha-2-macroglobulin) family.

SWISS:
P01023

Gene ID:
2

Database links:

Entrez Gene: 2Human

Entrez Gene: 232345Mouse

Entrez Gene: 24153Rat

Omim: 103950Human

SwissProt: P01023Human

SwissProt: Q61838Mouse

SwissProt: P06238Rat

Unigene: 212838Human

Unigene: 30151Mouse

Unigene: 225884Rat

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.