Macroglobulin Alpha-2 (A2M) Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Macroglobulin alpha-2 (A2M), Polyclonal Antibody
Full Product Name	Macroglobulin alpha-2 Polyclonal Antibody
Product Gene Name	anti-A2M antibody
Clonality	Polyclonal
Molecular Weight	163,291 Da
OMIM	103950
3D Structure	ModBase 3D Structure for P01023
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-A2M antibody	MBS8523596 is an antibody targeting A2M. Also known as Macroglobulin alpha-2 Polyclonal Antibody.
Other Notes	Small volumes of anti-A2M antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for A2M. It may not necessarily be applicable to this product.

NCBI GI #	66932947
NCBI GeneID	2
NCBI Accession #	NP_000005.2
UniProt Primary Accession #	P01023
UniProt Secondary Accession #	Q13677; Q59F47; Q5QTS0; Q68DN2; Q6PIY3; Q6PN97
UniProt Related Accession #	P01023
GenBank Nucleotide #	NM_000014.5
NCBI Official Full Name	alpha-2-macroglobulin isoform a
NCBI Official Synonym Full Names	alpha-2-macroglobulin
NCBI Official Symbol	A2M
NCBI Official Synonym Symbols	A2MD; CPAMD5; FWP007; S863-7
UniProt Protein Name	Alpha-2-macroglobulin
UniProt Synonym Protein Names	C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5
Protein Family	Alpha-2-macroglobulin
UniProt Gene Name	A2M
UniProt Synonym Gene Names	CPAMD5; Alpha-2-M
NCBI Protein Information	alpha-2-macroglobulin

NCBI Summary for A2M	The protein encoded by this gene is a protease inhibitor and cytokine transporter. It uses a bait-and-trap mechanism to inhibit a broad spectrum of proteases, including trypsin, thrombin and collagenase. It can also inhibit inflammatory cytokines, and it thus disrupts inflammatory cascades. Mutations in this gene are a cause of alpha-2-macroglobulin deficiency. This gene is implicated in Alzheimer's disease (AD) due to its ability to mediate the clearance and degradation of A-beta, the major component of beta-amyloid deposits. A related pseudogene, which is also located on the p arm of chromosome 12, has been identified. [provided by RefSeq, Nov 2016]
UniProt Comments for A2M	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.
Research Articles on A2M	**1.** The blood coagulation pathway may be a key regulatory network pathway contributing to the allergic inflammatory response in AR patients. A2M, which is regulated by STAT3, may be an important protein in the pathogenesis of allergic rhinitis in AR patients.
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