

Rabbit anti-Human Antithrombin III Monoclonal Antibody | anti-SerpinC1 antibody

Recombinant Anti-Antithrombin III Antibody, Rabbit Monoclonal

CATALOG # AAA254556	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA
-------------------------------	-----------------------	----------------------------	------------------------------

PRODUCT SYNONYMS

Antithrombin III; Monoclonal Antibody; Recombinant Anti-Antithrombin III Antibody; Rabbit Monoclonal; SerpinC1/AntithrombinIII/ATIII Antibody; Rabbit MAb; serpin peptidase inhibitor; clade C (antithrombin); member 1; Anti-AT3 Antibody; Anti-AT3D Antibody; Anti-ATIII Antibody; Anti-MGC22579 Antibody; Anti-Serpin C1 Antibody; Anti-SerpinC1 Antibody; Anti-THPH7 Antibody; anti-SerpinC1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	023
Specificity	Human Serpin C1. No cross-reactivity in ELISA with Human SerpinA1, Human SerpinA3, Human SerpinA5, Mouse SerpinF2, Human SerpinF1, Human SerpinD1, Mouse SerpinD1
Purity/Purification	Protein A
Form/Format	0.2um filtered solution in PBS
Applicable Applications for anti-SerpinC1 antibody	ELISA
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Serpin C1 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Antithrombin III/ATIII/SerpinC1 (rh Antithrombin III/ATIII/SerpinC1).
Preparation and Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for 12 months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Sodium azide is recommended to avoid contamination (Final Concentration 0.05% - 0.1%). It is toxic to cells and it should be disposed of properly. Avoid repeated freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for anti-SerpinC1 antibody	SerpinC1, also known as antithrombin III (AT III), is a member of the serpin superfamily of serine protease inhibitors, and has been found to be a marker for disseminated intravascular coagulation (DIC) and to be of prognostic significance in septic patients. SerpinC1 synthesized in the liver is the principal plasma serpin of blood coagulation proteases and inhibits thrombin and other factors such as Xa by the formation of covalently linked complexes. Thus it is one of the most important coagulation inhibitors and the fundamental enzyme for the therapeutical action of heparin. In common with SerpinA5 and D1, the inhibitory activity of SerpinC1 undergoes a dramatic increase in the presence of heparin and other glycosaminoglycans. ATIII mediates the promotion of prostaglandin release, an inhibitor of leucocyte activation and downregulator of many proinflammatory cytokines. Antithrombin III exerts anti-inflammatory properties in addition to its anti-coagulative mechanisms. In animal models of sepsis, ATIII affected cytokine plasma concentrations with a decrease of pro-inflammatory cytokines. The deficiency or functional abnormality of ATIII may result in an increased risk of thromboembolic disease, such as deep vein thrombosis and pulmonary embolism. In addition, it has been reported that SerpinC1 can alter or influence inflammatory processes via inhibition of NF-kappaB activation or actin polymerization.
References	de Sousa JC, et al. (1991) Antithrombin III. Physiologic, physiopathologic and laboratory aspects. Rev Port Cardiol. 10(9): 693-9.Totzke G, et al. (2001) Antithrombin III enhances inducible nitric oxide synthase gene expression in vascular smooth muscle cells. Cell Immunol. 208(1): 1-8.Ostermann H. (2002) Antithrombin III in Sepsis. New evidences and open questions. Minerva Anesthesiol. 68(5): 445-8.Caglikulekci M, et al. (2004) Effect of antithrombin-III (AT-III) on intestinal epithelium changes related to obstructive icterus: experimental study in rats. Ann Chir. 129(5): 273-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502261
NCBI GeneID	462
NCBI Accession #	NP_000479.1
NCBI GenBank Nucleotide #	NM_000488.3
UniProt Accession #	P01008; P78439; P78447; Q13815; Q5TC78; Q7KZ43; Q7KZ97; Q9UC78; B2R6P0
NCBI Official Full Name	antithrombin-III
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade C (antithrombin), member 1
NCBI Official Symbol	SERPINC1
NCBI Official Synonym Symbols	AT3; AT3D; ATIII; THPH7
NCBI Protein Information	antithrombin-III; serpin C1; antithrombin III; serine-cysteine proteinase inhibitor clade C member 1; serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1
UniProt Protein Name	Antithrombin-III
UniProt Gene Name	SERPINC1
UniProt Synonym Gene Names	AT3; ATIII
UniProt Entry Name	ANT3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.