

Product datasheet for **TA354930**

Antithrombin III (SERPINC1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the intra domain 160-175aa of human AT3 protein. This sequence is identical to human, mouse, rat, dog, bovine and chicken.
Formulation:	This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by Epitope Affinity Purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	50 kDa
Gene Name:	serpin family C member 1
Database Link:	NP_000479 Entrez Gene 11905 Mouse Entrez Gene 462 Human P01008



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Background:

Serpin Peptidase Inhibitor, Clade A (SerpinC1), also known as antithrombin III (AT III), is a member of the serpin superfamily of serine protease inhibitors. SerpinC1 synthesized in the liver is the principal plasma serpin of blood coagulation proteases and inhibits thrombin and other activated serine protease of the coagulation system, such as Xa, by the formation of covalently linked complexes. It regulates the blood coagulation cascade. In common with SerpinA5 and D1, the inhibitory activity of SerpinC1 undergoes a dramatic increase in the presence of heparin and other glycosaminoglycans. 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- κ B activation or actin polymerization.

Synonyms:

AT3; AT3D; ATIII; THPH7

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Complement and coagulation cascades

Product images:

WB: The mouse liver tissue lysate was immunoblotted by Rabbit anti-AT3 at 1:500.