

SERPINC1 Rabbit pAb

Catalog # AP99465

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P01008
Other Accession	P01008
Reactivity	Human, Mouse
Predicted	Rat, Pig, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52602
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Antithrombin III
Epitope Specificity	141-211/464
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the serpin family.
SUBUNIT	Forms protease inhibiting heterodimer with TMPRSS7.
Post-translational modifications	Phosphorylation sites are present in the extracellular medium.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The protein includes two functional domains: the heparin binding-domain at the N-terminus of the mature protein, and the reactive site domain at the C-terminus. The inhibitory activity is enhanced by the presence of heparin. More than 120 mutations have been identified for this gene, many of which are known to cause antithrombin-III deficiency. [provided by RefSeq, Jul 2009].

Additional Information

Gene ID	462
Other Names	AT3; AT3D; ATIII; ATIII-R2; ATIII-T1; ATIII-T2; THPH7; At-3; ANT3_HUMAN; SERPINC1; Serpin C1; ANT3_MOUSE; serpin family C member 1; serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1; serpin peptidase inhibitor, clade C (antithrombin), member 1; antithrombin III; signal peptide antithrombin part 1; coding sequence signal peptide antithrombin part 1; antithrombin (aa 375-432)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.
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Protein Information

Name	SERPINC1
Synonyms	AT3
Function	Most important serine protease inhibitor in plasma that regulates the blood coagulation cascade (PubMed: 15140129 , PubMed: 15853774). AT-III inhibits thrombin, matrilysin-3/TMPRSS7, as well as factors IXa, Xa and XIa (PubMed: 15140129). Its inhibitory activity is greatly enhanced in the presence of heparin.
Cellular Location	Secreted, extracellular space.
Tissue Location	Found in plasma.

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