SERPINC1 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SERPINC1, Blocking Peptide
Full Product Name	SERPINC1 Antibody (C-term) Blocking Peptide
Product Gene Name	SERPINC1 blocking peptide
Product Synonym Gene Name	AT3
Product Synonym Names	Antithrombin-III; ATIII; Serpin C1; SERPINC1; AT3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human SERPINC1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SERPINC1 peptide (MBS9226281) is used for blocking the activity of SERPINC1 antibody (MBS9202812)
Molecular Weight	52,602 Da
OMIM	107300
Cellular Location	Secreted, extracellular space.
Tissue Location	Found in plasma.
Related Product Information for SERPINC1 blocking peptide	Most important serine protease inhibitor in plasma that regulates the blood coagulation cascade. AT-III inhibits thrombin, matriptase-3/TMPRSS7, as well as factors IXa, Xa and XIa. Its inhibitory activity is greatly enhanced in the presence of heparin.
Other Notes	Small volumes of SERPINC1 blocking peptide 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.
Searchable Terms for SERPINC1 purchase	MBS9226281 is a blocking peptide targeting SERPINC1. Also known as SERPINC1 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SERPINC1. It may not necessarily be applicable to this product.

NCBI GI #	113936
NCBI GeneID	462
NCBI Accession #	P01008.1
UniProt Primary Accession #	P01008
UniProt Secondary Accession #	P78439; P78447; Q13815; Q5TC78; Q7KZ43; Q7KZ97; Q9UC78; B2R6P0
UniProt Related Accession #	P01008
NCBI Official Full Name	Antithrombin-III
NCBI Official Synonym Full Names	serpin family C member 1

NCBI Official Symbol	SERPINC1
NCBI Official Synonym Symbols	AT3; AT3D; ATIII; THPH7
UniProt Protein Name	Antithrombin-III
UniProt Synonym Protein Names	Serpin C1
Protein Family	Antithrombin
UniProt Gene Name	SERPINC1
UniProt Synonym Gene Names	AT3; ATIII
UniProt Entry Name	ANT3_HUMAN
NCBI Protein Information	antithrombin-III
NCBI Summary for SERPINC1	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]
Research Articles on SERPINC1	**1.** Patients with low antithrombin III activities presented a higher risk of developing acute kidney injury after cardiac surgery.
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