

SERPINC1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant SERPINC1.

Catalog # AT3823a

Product Information

Application	WB, E
Primary Accession	P01008
Other Accession	BC022309
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2B12
Calculated MW	52602

Additional Information

Gene ID	462
Other Names	Antithrombin-III, ATIII, Serpin C1, SERPINC1, AT3
Target/Specificity	SERPINC1 (AAH22309.1, 1 a.a. ~ 259 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SERPINC1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

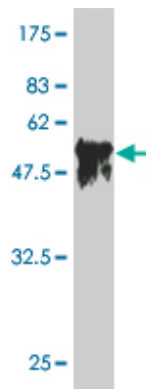
The protein encoded by this gene is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The protein includes two functional domains: the 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.

References

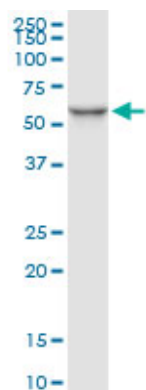
Antithrombin Cambridge II(A384S) mutation frequency and antithrombin activity levels in 120 of deep

venous thrombosis and 150 of cerebral infarction patients in a single center in Southern China. Zhang GS, et al. *Blood Coagul Fibrinolysis*, 2010 Sep. PMID 20683322. A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. *Am J Obstet Gynecol*, 2010 Jul 29. PMID 20673868. Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086. Identification of fetal and maternal single nucleotide polymorphisms in candidate genes that predispose to spontaneous preterm labor with intact membranes. Romero R, et al. *Am J Obstet Gynecol*, 2010 May. PMID 20452482. Polymorphisms in innate immunity genes and risk of childhood leukemia. Han S, et al. *Hum Immunol*, 2010 Jul. PMID 20438785.

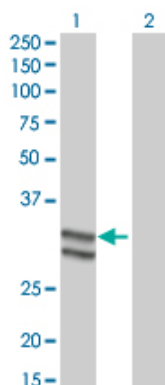
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (54.23 KDa) .



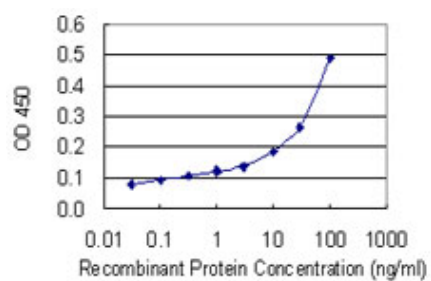
SERPINC1 monoclonal antibody (M02), clone 2B12. Western Blot analysis of SERPINC1 expression in human kidney.



Western Blot analysis of SERPINC1 expression in transfected 293T cell line by SERPINC1 monoclonal antibody (M02), clone 2B12.

Lane 1: SERPINC1 transfected lysate (29.1 KDa).
Lane 2: Non-transfected lysate.

Detection limit for recombinant GST tagged SERPINC1 is 3 ng/ml as a capture antibody.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.