

## Human Serpin C1/Antithrombin-III Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1267

DESCRIPTION				
Species Reactivity	Human			
Specificity	Detects human Serpin C1/Antithrombin-III in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than			
	2% cross-reactivity with recombinant human (rh) rhSerpin A1, rhSerpin A3, rhSerpin A4, rhSerpin A5, rhSerpin F2, recombinant mouse Serpin D1 and rhPEDF is observed.			
Source	Polyclonal Goat IgG			
Purification	Antigen Affinity-purified			
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Serpin C1/Antithrombin-III His33-Lys464 Accession # P01008			
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.			
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.			
APPLICATIONS Please Note: Optimal dilution	ns should be determined by each la	boratory for each application	on. General Protocols are available in the Technical Information section on our website.	
		Recommended Concentration	Sample	
Western Blot		0.1 μg/mL	Recombinant Human Serpin C1/Antithrombin-III (Catalog # 1267-PI)	
Immunoprecipitation		25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human Serpin C1/ Antithrombin-III (Catalog # 1267-PI), see our available Western blot detection antibodies	
Neutralization		Measured by its ability to neutralize Recombinant Human Serpin C1 (0.8 $\mu$ g/mL, Catalog # 1267-PI) inhibition of Recombinant Human Coagulation Factor II/Thrombin (0.05 $\mu$ g/mL, Catalog # 1473-SE) cleavage of the fluorogenic peptide substrate Boc-VPR-AMC (100 $\mu$ M, Catalog # ES011). The Neutralization Dose (ND <sub>50</sub> ) is typically 4.6 $\mu$ g/mL.		
PREPARATION AND S	TORAGE			
Reconstitution	Reconstitute at 0.2 mg/mL	in sterile PBS.		

## **BACKGROUND**

Stability & Storage

Shipping

Serpin C1 is a member of the Serpin superfamily of the serine protease inhibitors (1). It is the principal plasma Serpin of blood clotting proteases and inhibits thrombin as well as several factors such as Xa (2). Similar to Serpins A5 and D1, its thrombin inhibitory activity is enhanced by heparin. Hereditary and acquired Serpin C1 deficiency is the cause of an increased thrombotic tendency in many cases (3). For example, acquired Serpin C1 deficiency is a common condition in sepsis, after major trauma or surgery (4).

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
12 months from date of receipt, -20 to -70 °C as supplied.
1 month, 2 to 8 °C under sterile conditions after reconstitution.
6 months, -20 to -70 °C under sterile conditions after reconstitution.

## References:

- 1. Silverman, G.A. et al. (2001) J. Biol. Chem. 276:33293.
- 2. Chuang, Y.-J. et al. (2001) Biochemistry 40:6670.
- 3. Vinazzer, H. (1999) Semin. Thromb. Hemost. **25**:257.
- 4. Risberg, B. (1998) Blood Coagul. Fibrinolysis Suppl. 3:S3.

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