

# Anti-Human $\alpha$ 1-Antitrypsin (Sheep) Affinity-Purified IgG, 0.5 mg



Ref#: SA1AT-AP  
Lot#: xxxxxx  
Exp. Date: xxxx-xx

Store at -10 to -20°C

For Research Use Only  
Not for Use in Diagnostic Procedures  
For *in vitro* Use Only

<b>Immunogen:</b>	Human $\alpha$ 1-Antitrypsin (from human plasma)		
<b>Format:</b>	Affinity-purified IgG in 10 mM HEPES, pH 7.3, 150 mM NaCl, 50% (v/v) glycerol		
<b>Host:</b>	Sheep		
<b>Storage:</b>	Store between -10 and -20°C. Vial should be tightly capped. Do not store in frost-free freezers. Allow product to warm to room temperature and gently mix before use		
<b>Total Protein:</b>	0.50 mg		
<b>Volume:</b>	1 vial containing 0.250 mL anti-human, affinity purified IgG		
<b>Concentration:</b>	2 mg/mL affinity-purified IgG by absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.4$		
<b>Specificity:</b>	Specificity demonstrated by immunoelectrophoresis and ELISA methods		
<b>Neutralizing Activity:</b>	Not Determined		
<b>Application:</b>	Suitable as a source of affinity purified, enriched antibodies		
<b>Species Cross Reactivity:</b>	Dog: -	Human: ++	Mouse: -
	Pig: -	Rabbit: -	Rat: -

Alpha1-Antitrypsin (A1AT) is a 52KDa glycoprotein synthesized mainly in the liver and composed of a single polypeptide chain. Also known as Alpha1-Proteinase inhibitor ( $\alpha$ 1PI), A1AT functions as a broad spectrum inhibitor for many serine proteases, including activated Protein C, activated FXI, thrombin, plasmin, and neutrophil elastase. The normal A1AT concentration in serum is about 1.3 mg/mL (25 $\mu$ M).