

## Basic Information

<b>Product Name</b>	Anti-Alpha 1 Antitrypsin/SERPINA1 Antibody
<b>Gene Name</b>	SERPINA1
<b>Source</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human, rat
<b>Tested Application</b>	WB
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	E. coli-derived human SERPINA1 recombinant protein (Position: E25-T204). Human SERPINA1 shares 72.8% amino acid (aa) sequence identity with rat SERPINA1.
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Immunogen affinity purified.
<b>Observed MW</b>	53 kDa
<b>Dilution Ratios</b>	Western blot (WB):1:500-2000

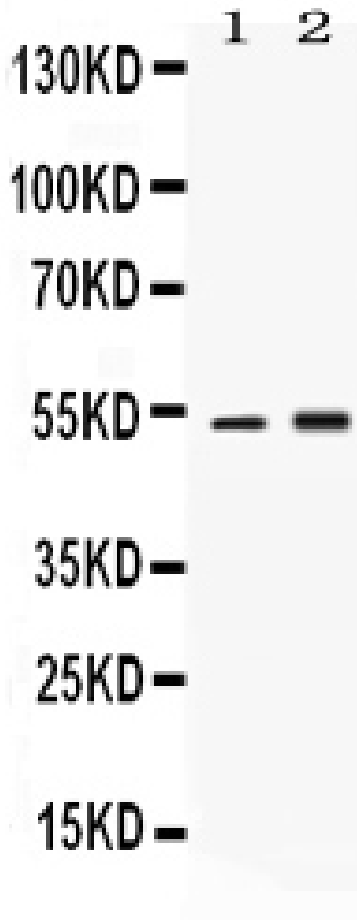
## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

SERPINA1 is also known as PI, A1A or AAT. This gene is mapped to 14q32.1. The protein encoded by this gene is secreted and is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Defects in this gene can cause emphysema or liver disease. Several transcript variants encoding the same protein have been found for this gene.

## Selected Validation Data



Western blot analysis of Alpha 1 Antitrypsin/SERPINA1 using anti-Alpha 1 Antitrypsin/SERPINA1 antibody (PB1151). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: human Hela whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Alpha 1 Antitrypsin/SERPINA1 antigen affinity purified polyclonal antibody (PB1151) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Alpha 1 Antitrypsin/SERPINA1 at approximately 53 kDa. The expected band size for Alpha 1 Antitrypsin/SERPINA1 is at 47 kDa.