

**SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS16806**

**Specification**

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**SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1) - Product Information**

Application	IHC, WB, FC
Primary Accession	<a href="#">P01009</a>
Other Accession	<a href="#">5265</a>
Reactivity	Human, Monkey, Dog
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	46737

**SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1) - Additional Information**

**Gene ID** 5265

**Other Names**

SERPINA1, A1A, A1AT, AAT, Alpha 1 Antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Alpha-1-antitrypsin, Alpha1AT, PRO2275, Alpha-1-antitrypsin null, PI1, Serpin A1

**Target/Specificity**

Human SERPINA1 / Alpha 1 Antitrypsin

**Reconstitution & Storage**

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

**Precautions**

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1) is for research use only and not for use in diagnostic or therapeutic procedures.

**SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1) - Protein Information**

**Name** SERPINA1 ([HGNC:8941](#))

**Synonyms** AAT, PI

**Function**

Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin.

**Cellular Location**

Secreted. Endoplasmic reticulum. Note=The S and Z allele are not secreted effectively and

accumulate intracellularly in the endoplasmic reticulum

**Tissue Location**

Ubiquitous. Expressed in leukocytes and plasma.

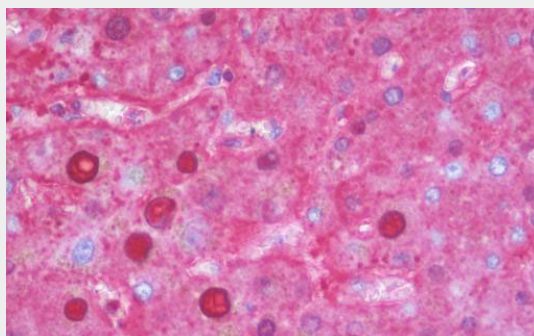
**Volume**

50  $\mu$ l

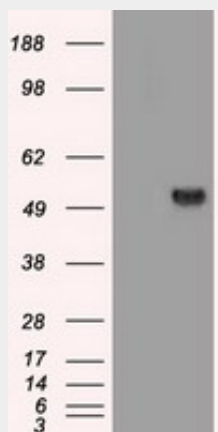
**SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

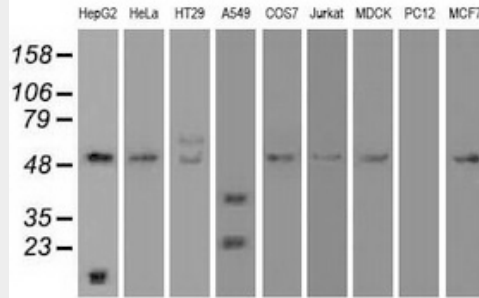
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1) - Images**

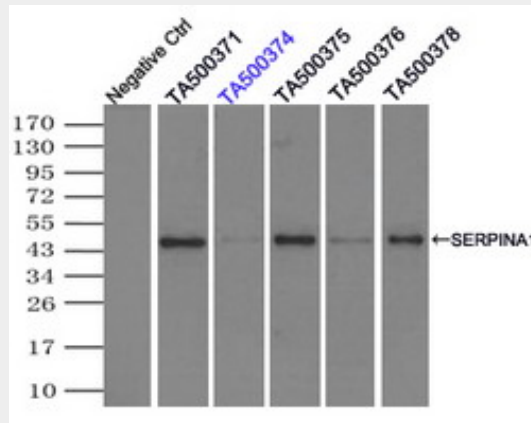
Anti-SERPINA1 / Alpha 1 Antitrypsin antibody IHC staining of human liver.



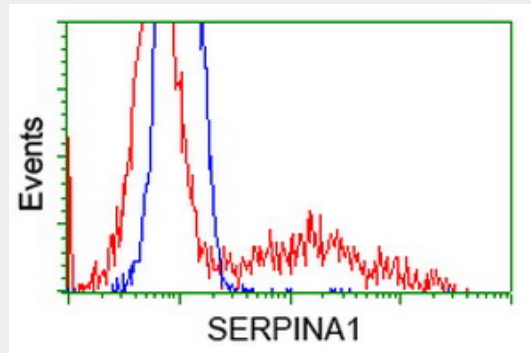
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SERPINA1...



Western blot of extracts (35 ug) from 9 different cell lines by using anti-SERPINA1 monoclonal...



Immunoprecipitation(IP) of SERPINA1 by using TrueMab monoclonal anti-SERPINA1 antibodies...



HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid...

### **SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1) - Background**

Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin.

### **SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 9A1) - References**

- Bollen A.,et al.DNA 2:255-264(1983).
- Long G.L.,et al.Biochemistry 23:4828-4837(1984).
- Rosenberg S.,et al.Nature 312:77-80(1984).
- Ciliberto G.,et al.Cell 41:531-540(1985).

Nukiwa T., et al. J. Biol. Chem. 261:15989-15994(1986).