

Nur für Forschungszwecke

# Alpha 1 Antitrypsin Monoklonaler Antikörper



Katalog-Nr.: 66135-1-Ig **6 Publikationen**

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 66135-1-Ig	<b>GenBank-Zugangsnummer:</b> BC015642	<b>Reinigungsmethode:</b> Protein-G-Reinigung
<b>Größe:</b> 150ul, Konzentration: 2280 µg/ml von 5265 Nanodrop und 847 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 5265	<b>CloneNo.:</b> 1A9G6
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	<b>Empfohlene Verdünnungen:</b> WB 1:5000-1:50000 IP 0.5-4.0 µg für IP und 1:500-1:2000 für WB
<b>Isotyp:</b> IgG1	<b>Berechnete Masse:</b> 418 aa, 47 kDa	<b>IHC 1:500-1:1000</b> <b>IF 1:20-1:200</b>
<b>Immunogen Katalognummer:</b> AG9516	<b>Beobachtete Masse:</b> 51 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> FC, IF, IHC, IP, WB, ELISA	<b>Positivkontrollen:</b> WB: humanes Plazenta-Gewebe, Hausschwein-Lebergewebe, HepG2-Zellen, L02-Zellen, Mauslebergewebe, Rattenlebergewebe
<b>In Publikationen genannte Anwendungen:</b> IF, IHC, WB	<b>IP:</b> humanes Plasmagewebe,
<b>Getestete Reaktivität:</b> Hausschwein, Human, Maus, Ratte	<b>IHC:</b> humanes Lebergewebe,
<b>Zitierte Arten:</b> Human	<b>IF:</b> HepG2-Zellen,

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

## Hintergrundinformationen

SERPINA1 is the gene for a protein called alpha-1-antitrypsin (AAT), which is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. AAT is a glycoprotein synthesized primarily by hepatocytes, with smaller amounts synthesized by intestinal epithelial cells, neutrophils, pulmonary alveolar cells and macrophages. AAT is the most abundant, endogenous serine protease inhibitor in blood circulation and it has been implicated in regulating vital fluid phase biological events such as blood coagulation, fibrinolysis, complement activation, apoptosis, reproduction, tumor progression and inflammatory response. The primary function of AAT is thought to be the inactivation of neutrophil elastase and other endogenous serine proteases. Defects in SERPINA1 can cause emphysema or liver disease.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Sang Luo	34926672	Ann Transl Med	WB, IF
Bing Yu	32394491	Liver Int	IF
Sang Luo	34422999	Ann Transl Med	WB, IF

## Lagerung

**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

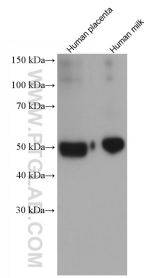
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

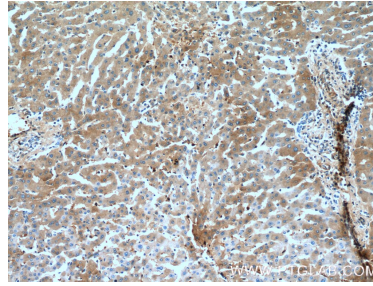
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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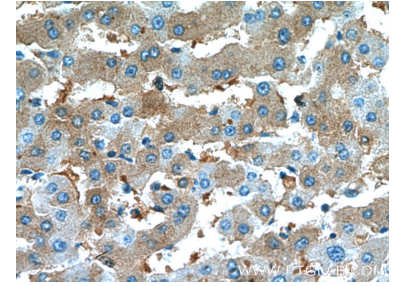
## Ausgewählte Validierungsdaten



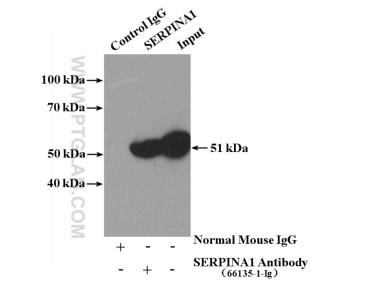
Various lysates were subjected to SDS PAGE followed by western blot with 66135-1-Ig (Alpha 1 Antitrypsin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



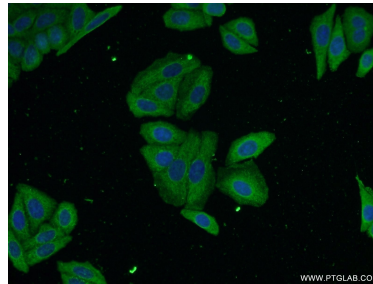
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66135-1-Ig (Alpha-1-Antitrypsin Antibody) at dilution of 1:1000 (under 10x lens).



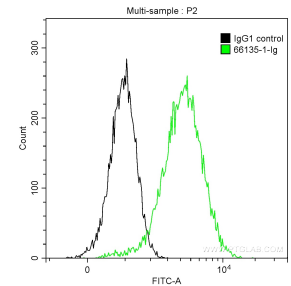
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66135-1-Ig (Alpha-1-Antitrypsin Antibody) at dilution of 1:1000 (under 40x lens).



IP Result of anti-Alpha-1-Antitrypsin (IP:66135-1-Ig, 5ug; Detection:66135-1-Ig 1:1000) with human plasma lysate 4000ug.



Immunofluorescent analysis of HepG2 cells using 66135-1-Ig (Alpha-1-Antitrypsin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.2 ug Anti-Human Alpha 1 Antitrypsin (66135-1-Ig, Clone:1A9G6) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.