

À des fins de recherche uniquement

# Anticorps Monoclonal anti-Alpha 1 Antitrypsin



Numéro de catalogue: 66135-1-Ig **7 Publications**

## Informations de base

<b>Numéro de catalogue:</b> 66135-1-Ig	<b>Numéro d'acquisition GenBank:</b> BC015642	<b>Méthode de purification:</b> Purification par protéine A
<b>Taille:</b> 150ul , Concentration: 2280 µg/ml by Nanodrop and 847 µg/ml by Bradford method using BSA as the standard;	<b>Identification du gène (NCBI):</b> 5265	<b>CloneNo.:</b> 1A9G6
<b>Hôte:</b> Mouse	<b>Nom complet:</b> serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	<b>Dilutions recommandées:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB IHC 1:500-1:1000 IF 1:20-1:200
<b>Isotype:</b> IgG1	<b>MW calculé</b> 418 aa, 47 kDa	
<b>Immunogen Catalog Number:</b> AG9516	<b>MW observés:</b> 51 kDa	

## Applications

**Applications testées:**  
FC, IF, IHC, IP, WB, ELISA

**Demandes citées:**  
IF, IHC, WB

**Spécificité de l'espèce:**  
Humain, porc, rat, souris

**Espèces citées:**  
Humain, rat

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (\*) A défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.**

**Contrôles positifs:**

**WB :** tissu placentaire humain, cellules HepG2, cellules LO2, lait humain, placenta humain, plasma humain, salive humaine, salive humaine, tissu hépatique de porc, tissu hépatique de rat, tissu hépatique de souris

**IP :** tissu plasmatique humain,

**IHC :** tissu hépatique humain,

**IF :** cellules HepG2,

## Informations générales

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 amount 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.

## Publications notables

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

## Stockage

**Stockage:**

Stocker à -20°C. Stable pendant un an après l'expédition.

**Tampon de stockage:**

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

**\*\*\* Les 20ul contiennent 0,1% de BSA.**

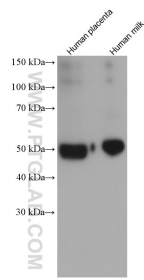
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

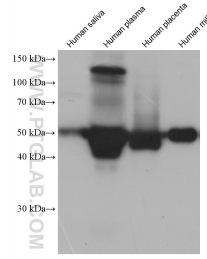
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

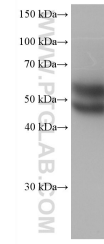
## Données de validation sélectionnées



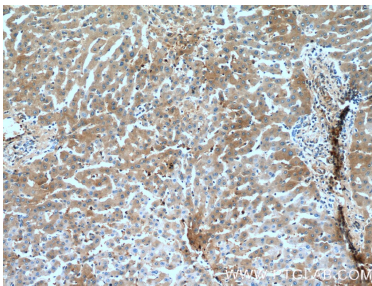
Various lysates were subjected to SDS PAGE followed by western blot with 66135-1-Ig (Alpha 1 Antitrypsin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



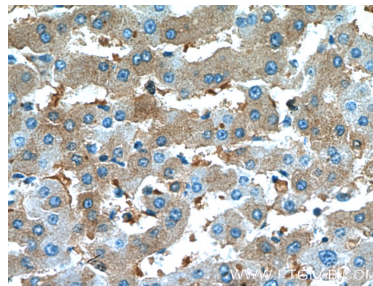
Various lysates were subjected to SDS PAGE followed by western blot with 66135-1-Ig (Alpha 1 Antitrypsin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



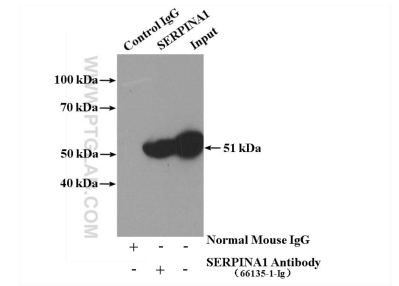
HepG2 cells were subjected to SDS PAGE followed by western blot with 66135-1-Ig (Alpha 1 Antitrypsin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



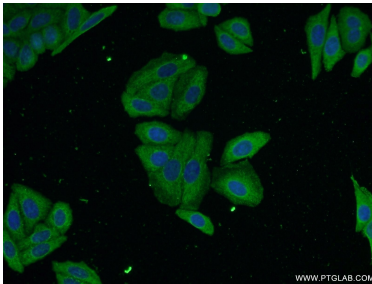
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66135-1-Ig (Alpha-1-Antitrypsin Antibody) at dilution of 1:1000 (under 10x lens).



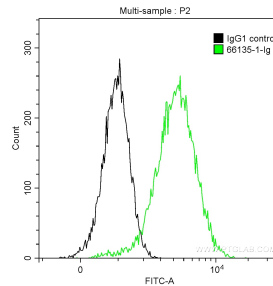
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66135-1-Ig (Alpha-1-Antitrypsin Antibody) at dilution of 1:1000 (under 40x lens).



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.