

anti- Alpha-1-Antitrypsin antibody

Product Information

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| Catalog No.: | FNab00338 |
| Size: | 100µg |
| Form: | liquid |
| Purification: | Protein A+G purification |
| Purity: | ≥95% as determined by SDS-PAGE |
| Host: | Mouse |
| Clonality: | monoclonal |
| Clone ID: | 5B1 |
| IsoType: | IgG1 |
| Storage: | PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.) |

Background

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 amountssynthesized 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.

Immunogen information

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| Immunogen: | serpin peptidase inhibitor, clade A(alpha-1 antiproteinase, antitrypsin), member 1 |
| Synonyms: | A1A, A1AT, AAT, Alpha 1 antiproteinase, Alpha 1 antitrypsin, Alpha 1 protease inhibitor, PI, PI1, PRO2209, PRO2275, Serpin A1, SERPINA1, SPAAT, α1-antitrypsin |
| Observed MW: | 50 kDa |

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Wuhan Fine Biotech Co., Ltd.

B9 Bld, High-Tech Medical Devices Park, No. 818 Gaoxin Ave. East Lake High-Tech Development Zone. Wuhan, Hubei, China(430206)

Tel : (0086)027-87384275

Fax: (0086)027-87800889

www.fn-test.com

Uniprot ID : P01009

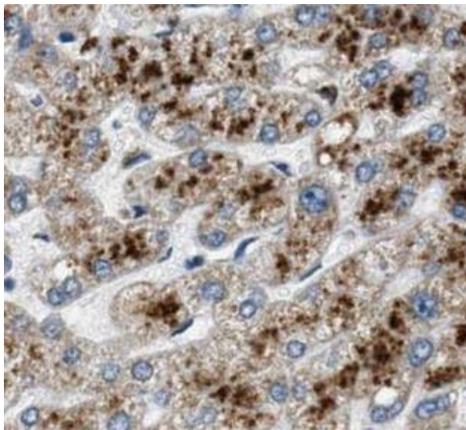
Application

Reactivity: Human, Rat

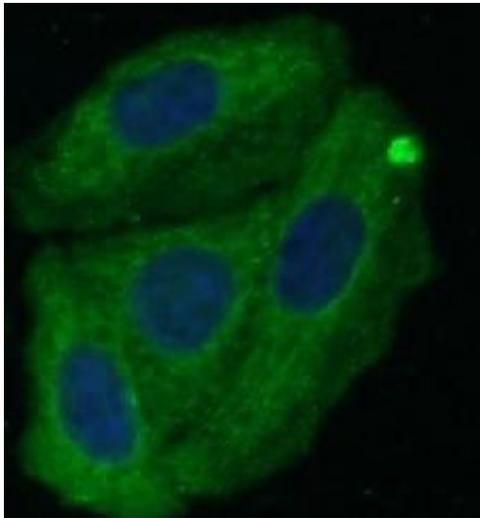
Tested Application: ELISA, WB, IHC, IF

Recommended dilution: WB: 1:500-1:5000; IP: 1:500-1:2000; IF: 1:20-1:200; IHC: 1:500-1:1000

Image:



Immunohistochemistry of paraffin-embedded human liver using FNab00338(Alpha-1-Antitrypsin antibody) at dilution of 1:1000



Immunofluorescent analysis of HepG2 cells using FNab00338(Alpha-1-Antitrypsin Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)

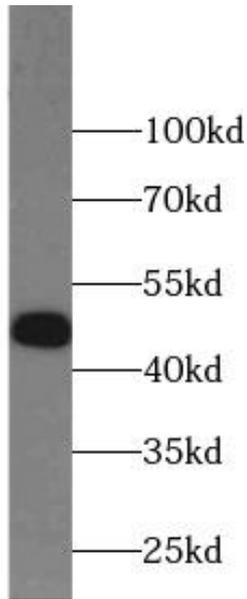
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HepG2 cells were subjected to SDS PAGE followed by western blot with FNab00338(Alpha-1-Antitrypsin antibody) at dilution of 1:1000