

**Mouse Anti-Alpha-1-Antitrypsin (SERPINA1) [AAT/1378]: MC0142, MC0142RTU7**

**Intended Use:** For Research Use Only

**Description:** It recognizes a protein of 54kDa, which is identified antitrypsin (AAT). The immunohistochemical staining of AAT is useful in identification of benign and malignant hepatic tumors and yolk sac carcinomas. Positive staining for AAT is also used in detection of benign and malignant lesions of histiocytic nature. This antibody is may also useful tool in the screening of patients with cryptogenic cirrhosis or other forms of liver disease with fibrosis of uncertain origin.

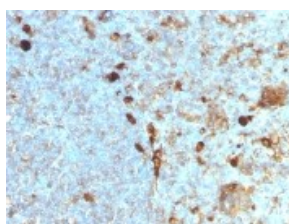
**Specifications:**

Clone: AAT/1378  
Source: Mouse  
Isotype: IgG1  
Reactivity: Human  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, Flow Cyt., IF, WB  
Package:

Description	Catalog No.	Size
Alpha-1-Antitrypsin (SERPINA1) Concentrated	MC0142	1 ml
Alpha-1-Antitrypsin (SERPINA1) Prediluted	MC0142RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Tonsil, Hepatocellular Carcinoma or Histiocytoma, HepG2 Cells  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual  
\* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with Alpha-1-Antitrypsin using DAB

**References:**

1. Serum a-1 Antitrypsin (AAT) antagonizes intrinsic apoptosis induction in neutrophils from patients with systemic inflammatory response syndrome. Sarabhai T, et al. PLoS One 12:e0177450, 2017.
2. Age-related macular degeneration-associated silent polymorphisms in Htra1 impair its ability to antagonize insulin-like growth factor 1. Jacobo SM, et al. Mol Cell Biol 33:1976-90, 2013.
3. Parameters Affecting Image-guided, Hydrodynamic Gene Delivery to Swine Liver. Kamimura K, et al. Mol Ther Nucleic Acids 2:e128, 2013.
4. Image-guided, intravascular hydrodynamic gene delivery to skeletal muscle in pigs. Kamimura K, et al. Mol Ther 18:93-100, 2010.

Doc. 100-MC0142  
Rev. A