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# **AAT Mouse mAb**

CatalogNo: YM0005

## Key Features

Host Species

Mouse

Reactivity

Human,Mouse

ApplicationsWB,ELISA

MW • 47kD (Calculated)

#### **Recommended Dilution Ratios**

WB 1:500-1:2000 ELISA 1:10000 Not yet tested in other applications.

## **Storage**

Storage\*-15°C to -25°C/1 year(Do not lower than -25°C)FormulationLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

## **Basic Information**

Clonality Monoclonal

### Immunogen Information

ImmunogenPurified recombinant fragment of human AAT expressed in E. Coli.SpecificityAAT Monoclonal Antibody detects endogenous levels of AAT protein.

## **Target Information**

Gene name SERPINA1

Protein Name	Alpha-1-antitrypsin			
	Organism	Gene ID	UniProt ID	
	Human	<u>5265;</u>	<u>P01009;</u>	
Cellular Localization	Secreted. Endoplasmic reticulum. The S and Z allele are not secreted effectively and accumulate intracellularly in the endoplasmic reticulum.; [Short peptide from AAT]: Secreted, extracellular space, extracellular matrix.			
Tissue specificity	Ubiquitous. Expressed in leukocyte	es and plasma.		
Function	Ubiquitous. Expressed in leukocytes and plasma. Disease:Deficiency of the normal inhibitor in individuals homozygous for allele Z or M- Malton can result in the development of chronic emphysema or infantile liver cirrhosis.,Disease:The major physiological function of AAT is the protection of the lower respiratory tract against proteolytic destruction by human leukocyte elastase (HLE). A hereditary deficiency of AAT, is associated with a 20-30 fold increased risk of developing chronic obstructive pulmonary disease.,Disease:Variant Pittsburgh is the cause of bleeding diathesis.,Domain:The reactive center loop (RCL) extends out from the body of the protein and directs binding to the target protease. The protease cleaves the serpin at the reactive site within the RCL, establishing a covalent linkage between the carboxyl group of the serpin reactive site and the serine hydroxyl of the protease. The resulting inactive serpin- protease complex is highly stable.,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.,Function:Short peptide from AAT (SPAAT) is a reversible chymotrypsin inhibitor. It also inhibits elastase, but not trypsin.,miscellaneous:The aberrant form is found in the plasma of chronic smokers, and persists after smoking is ceased. It can still be found ten years after smoking has ceased.,online information:Alpha-1 antitrypsin entry,polymorphism:The sequence shown is that of the M1V allele which is the most common form of PI (44 to 49%). Other frequent alleles are: M1A 20 to 23%; M2 10 to 11%; M3 14 to 19%,.PTM:Proteolytic processing may yield the truncated form that ranges from Asp-30 to Lys-418,.PTM:Several isomers are observed, resulting from the combination of different N-linked glycan structures an			

# Validation Data



Western Blot analysis using AAT Monoclonal Antibody against human plasma (1) and NIH/3T3 cell lysate (2).

## **Contact information**

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