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AAT Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1290a

Product Information

Application	WB, E
Primary Accession	P01009
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	2B12
Isotype	IgG1
Calculated MW	46737
Description	AAT, also known as SERPINA1; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1. It is secreted and is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Severe Serpin A1 deficiency leads to several clinical complications such as pulmonary emphysema, juvenile hepatisis, cirrhosis and hepatocellular carcinoma.
Immunogen	Purified recombinant fragment of human AAT expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	5265
Other Names	Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, Short peptide from AAT, SPAAT, SERPINA1, AAT, PI
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	AAT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SERPINA1 (HGNC:8941)
Synonyms	AAT, PI

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.
Cellular Location	Secreted. Endoplasmic reticulum. Note=The S and Z allele are not secreted effectively and accumulate intracellularly in the endoplasmic reticulum
Tissue Location	Ubiquitous. Expressed in leukocytes and plasma.

References

1. J Proteome Res. 2005 Nov-Dec;4(6):2070-80. 2. Neuro Endocrinol Lett. 2008 Aug;29(4):482-4.

Images

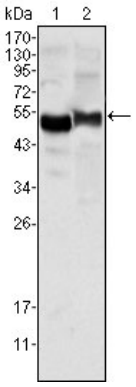


Figure 1: Western blot analysis using AAT mouse mAb against human plasma (1) and NIH/3T3 cell lysate (2).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.