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SERPINA1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2239a

Product Information

Application	WB, E
Primary Accession	P01009
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6F9H11
Isotype	IgG1
Calculated MW	46737
Description	The protein encoded by this gene is secreted and is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Defects in this gene can cause emphysema or liver disease. Several transcript variants encoding the same protein have been found for this gene.
Immunogen	Purified recombinant fragment of human SERPINA1 (AA: 23-237) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% 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~~1/10000
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	SERPINA1 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.PLoS One. 2012;7(8):e42728. 2.Electrophoresis. 2012 Jul;33(14):2130-7.

Images

