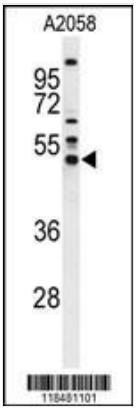
SERPINA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SERPINA1, Polyclonal Antibody
Full Product Name	SERPINA1, ID (SERPINA1, AAT, PI, Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, Short peptide from AAT) (MaxLight 750)
Product Gene Name	anti-SERPINA1 antibody
Product Synonym Names	SERPINA1; AAT; PI; Alpha-1-antitrypsin; Alpha-1 protease inhibitor; Alpha-1-antiproteinase; Serpin A1; Short peptide from AAT
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Specificity	Recognizes human SERPINA1
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	46,737 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (94843084..94857029, complement). Location: 14q32.1
OMIM	107400
3D Structure	ModBase 3D Structure for P01009
Immunogen	SERPINA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 165~195 amino acids from the Central region of human SERPINA1.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-SERPINA1 antibody	Antibodies; Protease Inhibitors
Applications Tested/Suitable for anti-SERPINA1 antibody	Western Blot (WB), FLISA
Application Notes for anti-SERPINA1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SERPINA1 antibody	SERPINA1 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.
Product References and Citations for anti-SERPINA1 antibody	Kilty, S.J., et al. Am J Rhinol Allergy 24 (1), E4-E9 (2010). Kok, K.F., et al. BMC Gastroenterol 10, 22 (2010). Dahl, M. Clin Respir J 3(2):121-122(2009). Zhang, H., et al. Nat. Biotechnol. 21(6):660-666(2003). Mills, K., et al. Glycobiology 13(2):73-85(2003).

Other Notes	Small volumes of anti-SERPINA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SERPINA1 purchase	MBS6346260 is an antibody targeting SERPINA1. Also known as SERPINA1, ID (SERPINA1, AAT, PI, Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, Short peptide from AAT) (MaxLight 750). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SERPINA1 antibody
Western blot analysis of SERPINA1 Antibody (Center) in A2058 cell line lysates (35ug/lane). SERPINA1 (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SERPINA1. It may not necessarily be applicable to this product.

NCBI GI #	50363221
NCBI GeneID	5265
NCBI Accession #	NP_001002235.1
UniProt Primary Accession #	P01009
UniProt Secondary Accession #	Q0PVP5; Q13672; Q53XB8; Q5U0M1; Q7M4R2; Q86U18; Q86U19; Q96BF9; Q96ES1; A6PX14; B2RDQ8
UniProt Related Accession #	P01009
GenBank Nucleotide #	NM_001002235.2
NCBI Official Full Name	alpha-1-antitrypsin
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
NCBI Official Symbol	SERPINA1
NCBI Official Synonym Symbols	PI; A1A; AAT; PI1; A1AT; PRO2275; alpha1AT
UniProt Protein Name	Alpha-1-antitrypsin
UniProt Synonym Protein Names	Alpha-1 protease inhibitor; Alpha-1-antiproteinase; Serpin A1
Protein Family	Alpha-1-antiproteinase
UniProt Gene Name	SERPINA1
UniProt Synonym Gene Names	AAT; PI; SPAAT
UniProt Entry Name	A1AT_HUMAN
NCBI Protein Information	alpha-1-antitrypsin; serpin A1; alpha-1-antiproteinase; alpha-1-antitrypsin null; alpha-1 protease inhibitor; protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin; serine (or cysteine) proteinase inhibitor, clade A, member 1

NCBI Summary for SERPINA1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for SERPINA1	SERPINA1: 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. Defects in SERPINA1 are the cause of alpha-1-antitrypsin deficiency (A1ATD). A disorder whose most common manifestation is emphysema, which becomes evident by the third to fourth decade. A less common manifestation of the deficiency is liver disease, which occurs in children and adults, and may result in cirrhosis and liver failure. Environmental factors, particularly cigarette smoking, greatly increase the risk of emphysema at an earlier age. Belongs to the serpin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Inhibitor; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 14q32.1 Cellular Component: Golgi apparatus; extracellular space; proteinaceous extracellular matrix; endoplasmic reticulum; extracellular region Molecular Function: serine-type endopeptidase inhibitor activity; identical protein binding; protein binding; protease binding; glycoprotein binding Biological Process: platelet activation; response to chromate; platelet degranulation; response to triglyceride; response to cytokine stimulus; response to lead ion; response to hypoxia; response to methanol; acute-phase response; response to lipopolysaccharide; blood coagulation; response to estradiol stimulus Disease: Alpha-1-antitrypsin Deficiency; Pulmonary Disease, Chronic Obstructive
Research Articles on SERPINA1	**1.** TFEB gene transfer is a novel strategy for treatment of liver disease of alpha-1-anti-trypsin deficiency.
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