

Anti-SERPINA1 Picoband Antibody

Catalog # ABO11715

Product Information

Application	WB
Primary Accession	P01009
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Alpha-1-antitrypsin(SERPINA1) detection. Tested with WB in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	46737
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Secreted. Endoplasmic reticulum. The S and Z allele are not secreted effectively and accumulate intracellularly in the endoplasmic reticulum.
Tissue Specificity	Ubiquitous. Expressed in leukocytes and plasma. .
Source	Eukaryota
Protein Name	Alpha-1-antitrypsin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived human SERPINA1 recombinant protein (Position: E25-T204). Human SERPINA1 shares 72.8% amino acid (aa) sequence identity with rat SERPINA1.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated

freezing and thawing.

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.

Background

SERPINA1 is also known as PI, A1A or AAT. This gene is mapped to 14q32.1. 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.

Images



Western blot analysis of SERPINA1 expression in rat brain extract (lane 1) and HELA whole cell lysates (lane 2). SERPINA1 at 52KD was detected using rabbit anti-SERPINA1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11715) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.

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