

Product datasheet for **AP08131PU-S**

alpha 1 Antitrypsin (SERPINA1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC
Recommended Dilution:	Suitable for Immunohistochemistry and Immunocytochemistry (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears): 1/50-1/100 using streptavidin~biotin system or polymer system. FFPE tissue sections require antigen retriever (boiling tissue in 10 mM citrate pH 6.0 for 10-20 minutes, followed by cooling at RT for 15-20 minutes). Recommended Positive Control: Human tonsil, liver.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Purified human ATT.
Specificity:	This antibody is specific for Alpha-1-Antitrypsin (AAT). Cellular Localization: Cytoplasmic staining of macrophages.
Formulation:	PBS, pH 7.4 containing 0.05% Sodium Azide as preservative and 1% BSA as stabilizer. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	serpin family A member 1
Database Link:	Entrez Gene 5265 Human P01009



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Background:

Alpha-1-Antitrypsin (AAT) is a 51 kDa glycoprotein synthesized in the liver. It is a serum protease inhibitor in neutrophil elastase, collagenase and chymotrypsin. This protein is a serum trypsin inhibitor, the correct name is alpha-1-proteinase inhibitor (A1PI). Disorders of this enzyme include, deficiency, in a hereditary disorder, this causes degradation of lung tissue and causes pulmonary emphysema, it also causes chronic liver disease and hepatocarcinoma. AAT is present in normal liver cells, histocytes, monocytes and a variety of epithelial and mesenchymal tumors. Increase in serum levels of AAT is also reported in rheumatoid arthritis, bacterial infection, vasculitis and carcinomatosis.

Synonyms:

SERPINA1, AAT