

For Research Use Only

Alpha-1-Antitrypsin Recombinant antibody



Catalog Number: 82918-1-RR

Basic Information

Catalog Number:

82918-1-RR

Size:

800 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9369

GenBank Accession Number:

BC015642

GeneID (NCBI):

5265

UNIPROT ID:

P01009

Full Name:

serpin peptidase inhibitor, clade A
(alpha-1 antiproteinase, antitrypsin),
member 1

Calculated MW:

418 aa, 47 kDa

Observed MW:

47 kDa

Purification Method:

Protein A purification

CloneNo.:

230109A8

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human

Positive Controls:

WB: human liver tissue, human heart tissue, human
saliva, human placenta tissue, human urine

Background Information

SERPINA1 is the gene for a protein called alpha-1-antitrypsin (AAT), which is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. AAT is a glycoprotein synthesized primarily by hepatocytes, with smaller amounts synthesized by intestinal epithelial cells, neutrophils, pulmonary alveolar cells and macrophages. AAT is the most abundant, endogenous serine protease inhibitor in blood circulation and it has been implicated in regulating vital fluid phase biological events such as blood coagulation, fibrinolysis, complement activation, apoptosis, reproduction, tumor progression and inflammatory response. The primary function of AAT is thought to be the inactivation of neutrophil elastase and other endogenous serine proteases. Defects in SERPINA1 can cause emphysema or liver disease.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

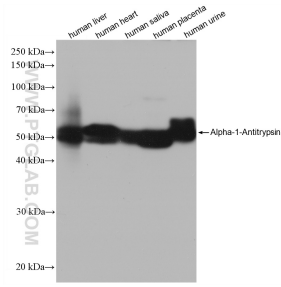
T: 4006900926

E: Proteintech-CN@ptglab.com

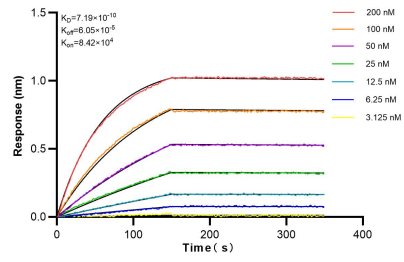
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82918-1-RR (Alpha-1-Antitrypsin antibody) at dilution of 1:32000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82918-1-RR against Human Alpha-1-Antitrypsin were performed. The affinity constant is 0.719 nM.