

## alpha 1-antitrypsin Conjugated Antibody

Catalog No: #C48127



Package Size: #C48127-AF350 100ul #C48127-AF405 100ul #C48127-AF488 100ul  
 #C48127-AF555 100ul #C48127-AF594 100ul #C48127-AF647 100ul  
 #C48127-AF680 100ul #C48127-AF750 100ul #C48127-Biotin 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
 Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	alpha 1-antitrypsin Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu
Immunogen Description	peptide
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	A1A antibody A1AT antibody A1AT_HUMAN antibody AAT antibody Alpha 1 antiproteinase antibody Alpha 1 antitrypsin antibody Alpha 1 antitrypsin null antibody Alpha 1 protease inhibitor antibody Alpha-1 protease inhibitor antibody Alpha-1-antiproteinase antibody alpha1 proteinase inhibitor antibody Alpha1AT antibody Dom1 antibody PI antibody PI1 antibody PRO2275 antibody Serine (or cysteine) proteinase inhibitor clade A member 1 antibody Serine protease inhibitor 1-1 antibody Serine protease inhibitor A1a antibody Serpin A1 antibody Serpin A1a antibody Serpin peptidase inhibitor clade A member 1 antibody Serpina1 antibody Short peptide from AAT antibody SPAAT antibody Spi1-1 antibody
Accession No.	Swiss-Prot#:P01009
Uniprot	P01009
GeneID	5265;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	52 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

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Alpha 1-Antitrypsin is an inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. It 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.

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Note: This product is for in vitro research use only