alpha 1 Antitrypsin Conjugated Antibody

Catalog No: #C49401

Package Size: #C49401-AF350 100ul #C49401-AF405 100ul #C49401-AF488 100ul #C49401-AF555 100ul #C49401-AF594 100ul #C49401-AF647 100ul #C49401-AF680 100ul #C49401-AF750 100ul #C49401-Biotin 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	alpha 1 Antitrypsin Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu
Immunogen Description	recombinant protein
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	47 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

Background

Cumulative damage to lung tissue by Neutrophil Elastase is responsible for the development of pulmonary emphysema, an irreversible lung disease characterized by loss of lung elasticity. a 1-antitrypsin (AAT), a 394 amino acid hepatic acute phase protein, predominantly inhibits Neutrophil Elastase. AAT is highly expressed in liver and in cultured hepatoma cells and, to a lesser extent, in macrophages. AAT is a highly polymorphic glycosylated serum protein with characteristic isoelectric-focusing patterns for most variants. The gene encoding AAT maps to a region of human chromosome 14 that includes a related serine protease inhibitor (serpin) gene which encodes corticosteroid-binding globulin. Oxidation of the methionine 358 residue in the active center of AAT results in a dramatic decrease in inhibitory activity towards elastase. AAT also has a moderate affinity for plasmin and Thrombin. AAT deficiency is associated with a 20-30 fold increased risk of precocious pulmonary emphysema.

Note: This product is for in vitro research use only