



## Goat anti-alpha-1-antitrypsin Antibody

<b>Item Number</b>	dAP-3022
<b>Target Molecule</b>	Principle Name: alpha-1-antitrypsin; Official Symbol: SERPINA1; All Names and Symbols: SERPINA1; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1; A1A; A1AT; AAT; PI; PI1; PRO2275; alpha1AT; alpha-1 protease inhibitor; alpha-1-antiproteinase; alpha-1-antitrypsin; alpha-1-antitrypsin null; protease inhibito; Accession Number (s): NP_000286.3; Human Gene ID(s): 5265; Non-Human GeneID(s):
<b>Immunogen</b>	QKTDTSHHQDHP, is from internal region (near N terminus) The immunizing peptide represents the N terminus of the mature protein. Reported variants represent identical protein: NP_001121174.1, NP_001121179.1, NP_001121172.1, NP_001121177.1, NP_001121178.1,
<b>Applications</b>	Pep ELISA, WB  Species Tested: Human
<b>Purification</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Supplied As</b>	lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
<b>Peptide ELISA</b>	Peptide ELISA: antibody detection limit dilution 1 to 16000.
<b>Western Blot</b>	Western Blot: Approx 55kDa band observed in Albumin-depleted Human Plasma lysates (calculated MW of 46.7kDa according to NP_000286.3). The observed molecular weight corresponds to the glycosylated form. Recommended concentration: 0.3-1µg/ml.
<b>IHC</b>	
<b>Reference</b>	Reference(s): Tsutsui Y, Dela Cruz R, Wintrode PL. Folding mechanism of the metastable serpin α1-antitrypsin. Proc Natl Acad Sci U S A. 2012 Mar 20;109(12):4467-72..PMID: 22392975->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**