

**BA045****Human Alpha-1-antitrypsin**

<b>Alternate names:</b>	AAT, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, SERPINA1
<b>Quantity:</b>	2 mg
<b>Concentration:</b>	2.0 mg/ml
<b>Background:</b>	Alpha-1-antitrypsin (A1AT) is a glycoprotein with a pI of 4.8. It is a serine protease inhibitor that acts to limit the amount of cell damage and death at the tissue site. Different isoenzymes exist which together form the Protease inhibitor system. Phenotype M is the most common and certain variants (S and Z) are associated with A1AT deficiency which can lead to emphysema and liver disease.
<b>Uniprot ID:</b>	<a href="#">P01009</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>GeneID:</b>	<a href="#">5265</a>
<b>Species:</b>	Human
<b>Source:</b>	Serum, Human serum
<b>Format:</b>	<b>State:</b> Liquid <b>Purity:</b> >95% >96% (SDS-PAGE) Identity confirmed by radial immunodiffusion, SDS-PAGE (single band at 54 kDa) and Cellulose acetate electrophoresis.
<b>Applications:</b>	ELISA. Can be used for all immunological/laboratory methods requiring highly purified antigens. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Description:</b>	Purified human alpha-1 antitrypsin <b>Molecular weight:</b> 54 kDa
<b>Storage:</b>	Store at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.