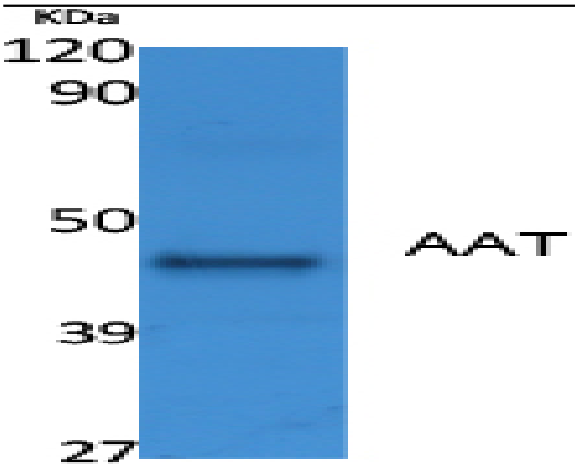
Best Tools for immunology Research

AAT Polyclonal Antibody

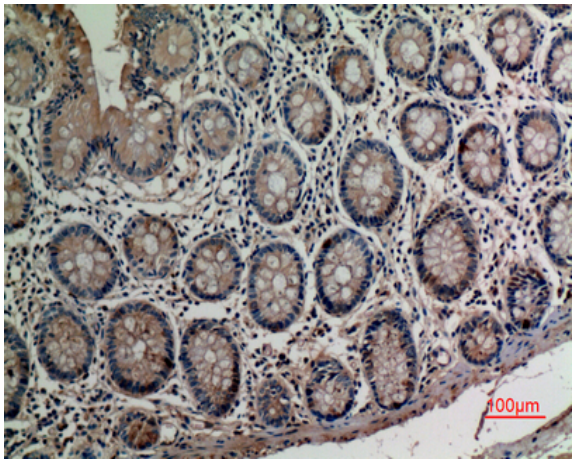
Catalog No :	YT5056
Reactivity :	Human;Rat
Applications :	WB;IHC;IF;ELISA
Target :	AAT
Fields :	>>Complement and coagulation cascades
Gene Name :	SERPINA1
Protein Name :	Alpha-1-antitrypsin
Human Gene Id :	5265
Human Swiss Prot No :	P01009
Immunogen :	Synthesized peptide derived from AAT . at AA range: 240-320
Specificity :	AAT Polyclonal Antibody detects endogenous levels of AAT protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	46kD

Cell Pathway :	Complement and coagulation cascades;
Background :	The protein encoded by this gene is secreted and is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Defects in this gene can cause emphysema or liver disease. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008],
Function :	disease:Deficiency of the normal inhibitor in individuals homozygous for allele Z or M-Malton can result in the development of chronic emphysema or infantile liver cirrhosis.,disease:The major physiological function of AAT is the protection of the lower respiratory tract against proteolytic destruction by human leukocyte elastase (HLE). A hereditary deficiency of AAT, is associated with a 20-30 fold increased risk of developing chronic obstructive pulmonary disease.,disease:Variant Pittsburgh is the cause of bleeding diathesis.,domain:The reactive center loop (RCL) extends out from the body of the protein and directs binding to the target protease. The protease cleaves the serpin at the reactive site within the RCL, establishing a covalent linkage between the carboxyl group of the serpin reactive site and the serine hydroxyl of the protease. The resulting inactive serpin-protease complex
Subcellular Location :	Secreted. Endoplasmic reticulum. The S and Z allele are not secreted effectively and accumulate intracellularly in the endoplasmic reticulum.; [Short peptide from AAT]: Secreted, extracellular space, extracellular matrix.
Expression :	Ubiquitous. Expressed in leukocytes and plasma.
Sort :	1567
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Western Blot analysis of extracts from K562 cells, using AAT Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-colon, antibody was diluted at 1:100