



Rabbit Anti-Alpha-1-Antichymotrypsin antibody

SL0094R

Product Name:	Alpha-1-Antichymotrypsin
Chinese Name:	α -1抗胰糜蛋白酶/SERPINA3抗体
Alias:	Alpha 1-Antichymotrypsin; AACT-Alpha 1; AACT Alpha 1; SERPINA3; AACT; A1ACT; ACT; Alpha 1 Antichymotrypsin 1; Alpha 1 Antichymotrypsin 2; Alpha 1 Antichymotrypsin 3; Alpha 1 Antitrypsin Deficiency; Anti Elastase; Antichymotrypsin; Cell growth inhibiting gene 24/25 protein; Clade A (Alpha 1 Antiproteinase Antitrypsin); GIG24; GIG25; Growth inhibiting protein 24; Growth inhibiting protein 25; MGC88254; PI1; Protease Inhibitor 1; Serine (or Cysteine) Proteinase Inhibitor; Serine (or cysteine) proteinase inhibitor clade A (alpha 1 antiproteinase, antitrypsin) member 3; Serine (or cysteine) proteinase inhibitor clade A member 3; Serine proteinase inhibitor clade A member 3; Serpin peptidase inhibitor clade A (alpha 1 antiproteinase antitrypsin) member 3; SERPINA1; SERPINA2; SERPINA3; Serpin A3; Alpha-1-antichymotrypsin His-Pro-less; AACT HUMAN.
文献引用 PubMed :	<p>Specific References(1) SL0094R has been referenced in 1 publications.</p> <p>[IF=3.13]Wang, Robert YL, et al. "Proteome Demonstration of Alpha-1-Acid Glycoprotein and Alpha-1-Antichymotrypsin." Pediatric Infectious Disease Journal (2014).WB;Human.</p> <p style="text-align: right;">PubMed:25170552</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	45kDa
Cellular localization:	Secretory protein

Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human AACT-Alpha1:121-320/423
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Alpha 1-Antichymotrypsin, a member of the serine proteinase inhibitor (serpin) family, inhibits neutrophil proteinase cathepsin G and mast cell chymases, and protects the lower respiratory tract from damage by proteolytic enzymes. It contains a reactive centre loop, which interacts with cognate proteinases, resulting in loop cleavage and a major conformational change. Recently, alpha 1-antichymotrypsin has been identified as a major constituent of the neurofibrillary plaques associated with Alzheimers disease, and in vitro studies have shown that it enhances the rate of amyloid-fibril formation. These observations and recent genetic evidence suggest that alpha 1-antichymotrypsin is important in the pathogenesis of Alzheimers disease.</p> <p>Function: Although its physiological function is unclear, it can inhibit neutrophil cathepsin G and mast cell chymase, both of which can convert angiotensin-1 to the active angiotensin-2.</p> <p>Subunit: Interacts with DNAJC1.</p> <p>Subcellular Location: Secreted.</p> <p>Tissue Specificity: Plasma. Synthesized in the liver. Like the related alpha-1-antitrypsin, its concentration increases in the acute phase of inflammation or infection. Found in the amyloid plaques from the hippocampus of Alzheimer disease brains.</p> <p>Similarity: Belongs to the serpin family.</p> <p>SWISS: P01011</p> <p>Gene ID: 12</p> <p>Database links:</p>

[Entrez Gene: 12](#)Human

[Omim: 107280](#)Human

[SwissProt: P01011](#)Human

[Unigene: 534293](#)Human

[Unigene: 710488](#)Human

Important Note:

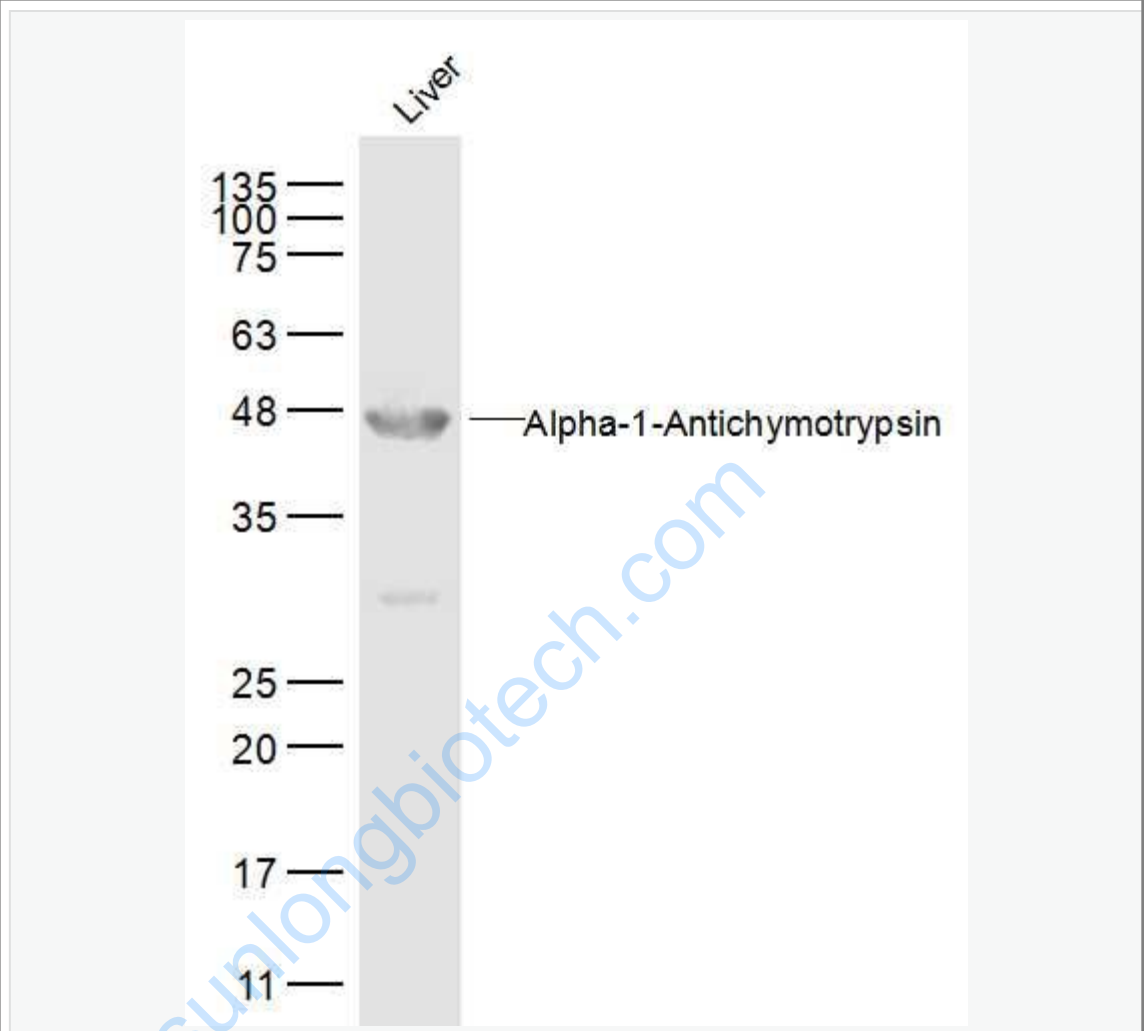
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

AACT是由神经胶质细胞分泌并参与淀粉样纤维生成和沉积的一种丝氨酸蛋白酶抑制剂,被认为是A β 肽的假性底物,与A β 肽具有很高的亲合性,可促进A β 肽的纤维化以生成淀粉样沉积。

ApoE作为AD的另一种病理伴随性物质,也可识别并与A β 肽相结合,促进A β 肽沉积生成淀粉样老年斑块。由于AACT和ApoE在AD发病中具有共同的作用途径,因此探讨其相互作用可能是AD治疗中一个新的途径。

AACT是一种丝氨酸蛋白酶抑制剂,可以中和糜蛋白酶等酶活性的蛋白酶,存在于大多数的组织细胞、巨噬细胞以及多种胃肠道和肺部Tumour中,但多形核白细胞中无此物质,它可以作为组织细胞瘤和良性/恶性纤维组织细胞瘤的标志。此抗体与人的AACT反应,主要用于恶性纤维组织细胞瘤等恶性Tumour的诊断,也可用于胃癌、肺癌、肾癌等Tumour的研究。

Picture:



Sample:

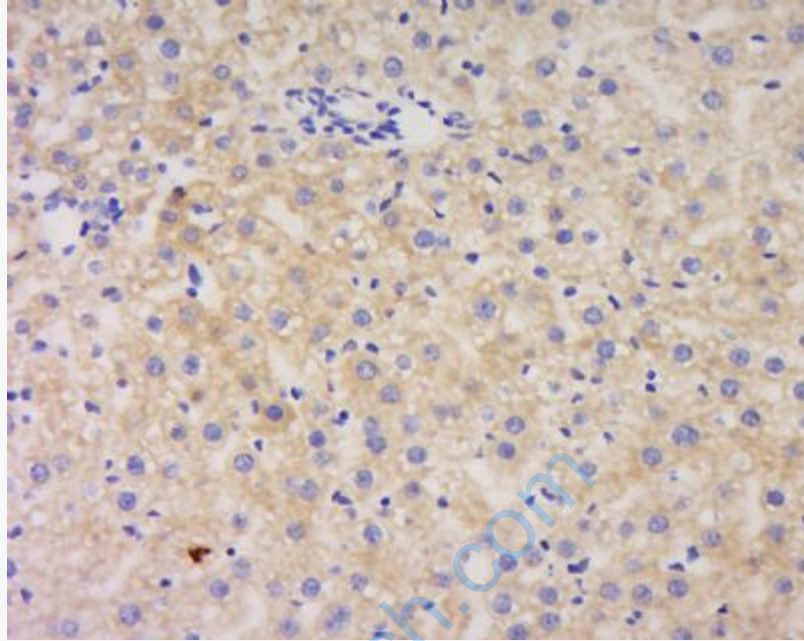
Liver (Mouse) Lysate at 40 ug

Primary: Anti-Alpha-1-Antichymotrypsin (SL0094R) at 1/500 dilution

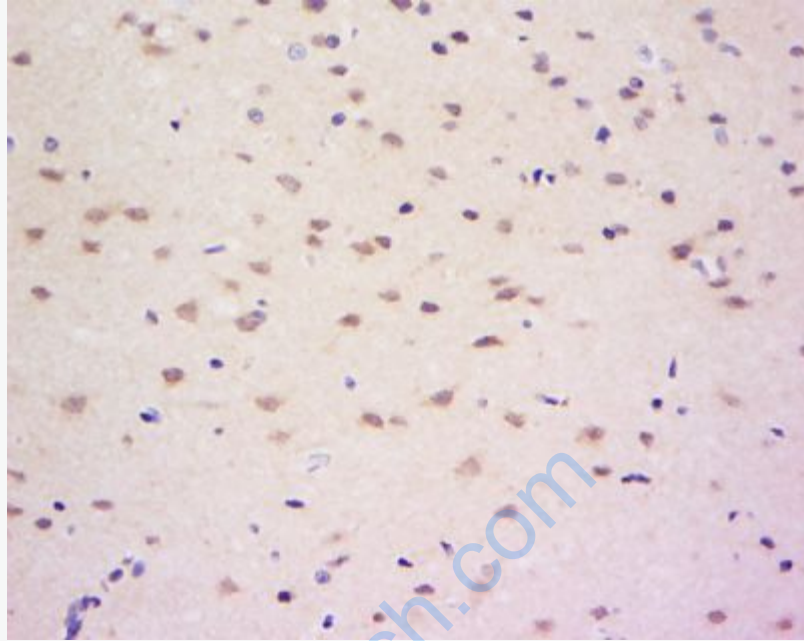
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 45 kD

Observed band size: 47 kD



Tissue/cell: Mouse liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti- Alpha-1-Antichymotrypsin Polyclonal Antibody, Unconjugated (SL0094R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti- Alpha-1-Antichymotrypsin Polyclonal Antibody, Unconjugated (SL0094R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining