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## AACT Rabbit pAb

Catalog Number: bs-0094R

Target Protein: AACT

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Mouse, Rat

Predicted MW: 45 kDa

Entrez Gene: 12

Swiss Prot: P01011

Source: KLH conjugated synthetic peptide derived from human AACT: 121-320/423.

Purification: affinity purified by Protein A

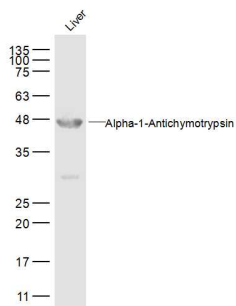
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

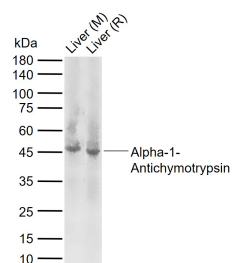
**Background:** Alpha 1-Antichymotrypsin, a member of the serine proteinase inhibitor (serpin) family, inhibits neutrophil proteinase cathepsin G and mast cell chymases, and protects the lower respiratory tract from damage by proteolytic enzymes. It contains a reactive centre loop, which interacts with 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.

### VALIDATION IMAGES

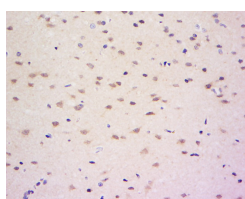
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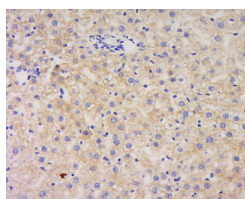
Sample: Liver (Mouse) Lysate at 40 ug Primary: Anti-Alpha-1-Antichymotrypsin (bs-0094R) at 1/500 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 47 kD



Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Rat Liver tissue lysates Primary: Anti-Alpha-1-Antichymotrypsin (bs-0094R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kDa Observed band size: 45 kDa



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 (bs-0094R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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 (bs-0094R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

## PRODUCT SPECIFIC PUBLICATIONS

[IF=4.2] Jin Rao. et al. Integration of Microarray Data and Single-Cell Sequencing Analysis to Explore Key Genes Associated with Macrophage Infiltration in Heart Failure. J INFLAMM RES. 2024 Dec 19 WB ; Mouse . 39717663

[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" . 25170552

[IF=3.3] Yan Zhang. et al. Proteomic analysis of multiple organ dysfunction induced by rhabdomyolysis. J PROTEOMICS. 2024 Apr;298:105138 IHC,WB ; Rat . 38403185