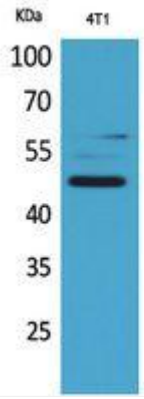
AACT Monoclonal Antibody

Catalog No	YP-mAb-04334
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	SERPINA3
Protein Name	Alpha-1-antichymotrypsin
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human SERPINA3. AA range:251-300
Specificity	AACT Monoclonal Antibody detects endogenous levels of AACT protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SERPINA3; AACT; GIG24; GIG25; Alpha-1-antichymotrypsin; ACT; Cell growth-inhibiting gene 24/25 protein; Serpin A3
Observed Band	46kD
Cell Pathway	Secreted.
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.
Function	caution:It is uncertain whether Met-1 or Met-4 is the initiator.,disease:Defects in SERPINA3 may be a cause of chronic obstructive pulmonary disease (COPD) [MIM:107280].,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 is highly stable.,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.,miscellaneous:Alpha-1-antichymotrypsin can bind DNA.,online information:Alpha-1 antichymotrypsin entry,sequence caution:Translation N-terminally shortened.,si

Background	The protein encoded by this gene is a plasma protease inhibitor and member of the serine protease inhibitor class. Polymorphisms in this protein appear to be tissue specific and influence protease targeting. Variations in this protein's sequence have been implicated in Alzheimer's disease, and deficiency of this protein has been associated with liver disease. Mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using AACT Monoclonal Antibody