

**Alpha-1-Antichymotrypsin Antibody (clone 1C10)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS14016**

**Specification**

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**Alpha-1-Antichymotrypsin Antibody (clone 1C10) - Product Information**

Application	IHC
Primary Accession	<a href="#">P01011</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	48kDa KDa

**Alpha-1-Antichymotrypsin Antibody (clone 1C10) - Additional Information**

**Gene ID** 12

**Other Names**

Alpha-1-antichymotrypsin, ACT, Cell growth-inhibiting gene 24/25 protein, Serpin A3, Alpha-1-antichymotrypsin His-Pro-less, SERPINA3, AACT

**Target/Specificity**

Human SERPINA3

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

Alpha-1-Antichymotrypsin Antibody (clone 1C10) is for research use only and not for use in diagnostic or therapeutic procedures.

**Alpha-1-Antichymotrypsin Antibody (clone 1C10) - Protein Information**

**Name** SERPINA3

**Synonyms** AACT

**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.

**Cellular Location**

Secreted.

**Tissue Location**

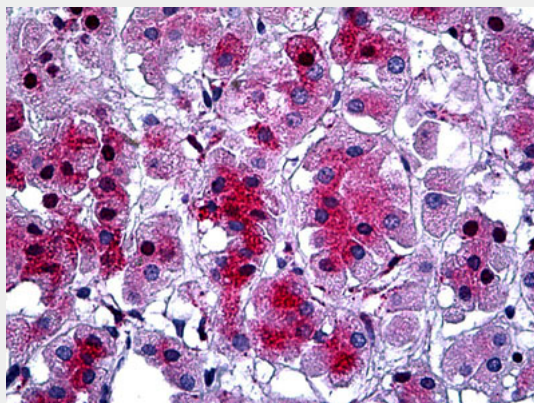
Plasma. Synthesized in the liver. Like the related alpha-1-antitrypsin, its concentration increases in the acute phase of inflammation or infection. Found in the amyloid plaques from the hippocampus of Alzheimer disease brains.

## Alpha-1-Antichymotrypsin Antibody (clone 1C10) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Alpha-1-Antichymotrypsin Antibody (clone 1C10) - Images



Anti-SERPINA3 antibody IHC of human adrenal.

## Alpha-1-Antichymotrypsin Antibody (clone 1C10) - Background

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.

## Alpha-1-Antichymotrypsin Antibody (clone 1C10) - References

- Chandra T., et al. *Biochemistry* 22:5055-5061(1983).  
Poller W., et al. *Genomics* 17:740-743(1993).  
Kim J.W., et al. Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Totoki Y., et al. Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.