

## Product datasheet for **AM26409PU-L**

### alpha 1 Antichymotrypsin (SERPINA3) Mouse Monoclonal Antibody [Clone ID: B7B10]

#### Product data:

|                        |   |
|------------------------|---|
| Product Type:          | Primary Antibodies  |
| Clone Name:            | B7B10   |
| Applications:          | WB  |
| Recommended Dilution:  | <b>Western blot:</b> Detect $\alpha$ 1-ACT using antibody B7B10 at 1:5000 (0.2 $\mu$ g/mL) dilution.  |
| Reactivity:            | Human   |
| Host:                  | Mouse   |
| Isotype:               | IgG1  |
| Clonality:             | Monoclonal  |
| Immunogen:             | Human serum derived $\alpha$ 1- antichymotrypsin  |
| Specificity:           | This antibody recognizes native $\alpha$ 1- antichymotrypsin.   |
| Formulation:           | 0.01M PBS pH7.2<br>State: Aff - Purified<br>State: Lyophilized Ig fraction  |
| Reconstitution Method: | Double distilled water is recommended to reconstitute the antibody.   |
| Purification:          | Protein G affinity purified   |
| Conjugation:           | Unconjugated  |
| Storage:               | Store lyophilized at 2-8°C for 6 months or at -20°C long term.<br>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.<br>Avoid repeated freezing and thawing. |
| Stability:             | Shelf life: one year from despatch.   |
| Gene Name:             | serpin family A member 3  |
| Database Link:         | <a href="#">Entrez Gene 12 Human P01011</a>   |



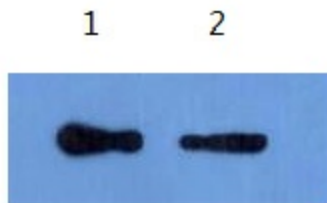
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**Background:**

Chymotrypsins, such as Chymotrypsin C (also known as pancreatic Chymotrypsin or Chymotrypsin), are digestive enzymes that can perform proteolysis by cleaving peptides at the carboxyl side of tyrosine, tryptophan and phenylalanine, although over time they can also hydrolyze other amide bonds, especially those with leucine-donated carboxyls. Chymotrypsins cleave peptide bonds by attacking the un-reactive carbonyl group with a powerful nucleophile, the Serine 195 residue located in the active site of the enzyme, which momentarily becomes covalently bonded to the substrate to form an intermediate. Chymotrypsin C is synthesized in the pancreas by protein biosynthesis as a precursor called chymotrypsinogen that is enzymatically inactive, but becomes active as a three polypeptide molecule that is interconnected by disulfide bonds.

**Synonyms:**

SERPINA3, AACT, GIG24, GIG25

**Product images:**

Detect alpha1 antichymotrypsin using antibody B7B10 at 1:5000 (0.2µg/ml) dilution.

1&2 :  $\alpha$ 1-antichymotrypsin ( $\alpha$ 1 ACT) 20ng/well