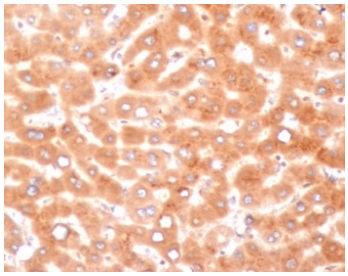
# Alpha-1-Antichymotrypsin Antibody / AACT / SERPINA3 [clone SERPINA3/4187] (V9483)

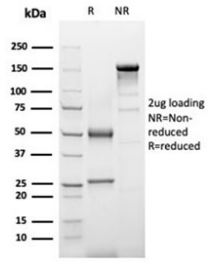
| Catalog No. | Formulation | Size |
|---|---|---|
| V9483-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9483-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V9483SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

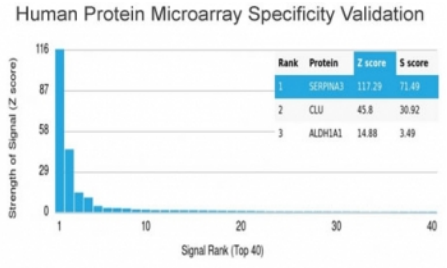
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b, kappa |
| **Clone Name** | SERPINA3/4187 |
| **Purity** | Protein A/G affinity |
| **UniProt** | P01011 |
| **Localization** | Cytoplasm |
| **Applications** | Immunohistochemistry (FFPE) : 1-2ug/ml |
| **Limitations** | This Alpha-1-Antichymotrypsin antibody is available for research use only. |



Alpha-1-Antichymotrypsin Antibody Human Liver IHC. Immunohistochemistry analysis of FFPE human liver tissue with Alpha-1-Antichymotrypsin antibody (clone SERPINA3/4187). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




SDS-PAGE analysis of purified, BSA-free Alpha-1-Antichymotrypsin antibody (clone SERPINA3/4187) as confirmation of integrity and purity.




Alpha-1-Antichymotrypsin Antibody Microarray Testing. Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Alpha-1-Antichymotrypsin antibody (clone SERPINA3/4187). These results demonstrate the foremost specificity of the SERPINA3/4187 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

## Description

SERPINA3 is a secreted glycoprotein inhibitor, also known as Alpha-1-antichymotrypsin, that modulates extracellular protease activity. Alpha-1-Antichymotrypsin Antibody recognizes a protein of 65-76kDa, which is identified antichymotrypsin (AACT). AACT is a plasma protease inhibitor synthesized in the liver as a single glycopeptide chain. In human, the normal serum level of AACT is about one-tenth that of their concentrations in plasma increase in response to trauma, surgery and infection. Elevated levels of AACT are widely, but not universally, reported in the cerebrospinal fluid and plasma of AD patients. Prostate-specific antigen (PSA) and its SDS-stable complex with AACT are in widespread use as markers for the diagnosis of prostate cancer. AACT deficiency may also be a possible cause of chronic liver disease. AACT antibody reacts with histiocytes and histiocytic neoplasms. It is widely used to identify histiocytes and tumors derived from them. Acinar tumors of the pancreas and salivary gland may also exhibit AACT positivity.

This SERPINA3 antibody is part of a broader set of Alpha-1-antichymotrypsin antibody reagents; for a validation-focused AACT antibody reference including liver expression and protein microarray specificity data, see AACT antibody clone SERPINA3/4184.

## Application Notes

Optimal dilution of the Alpha-1-Antichymotrypsin antibody should be determined by the researcher.

## Immunogen

A portion of amino acids A portion of amino acids 49-187 was used as the immunogen for the Alpha-1-Antichymotrypsin antibody.

## Storage

Aliquot the Alpha-1-Antichymotrypsin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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