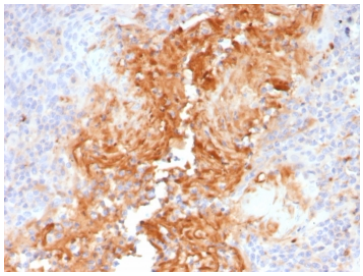
# Alpha-1-Antitrypsin Antibody / AAT / SERPINA1 [clone AAT/4490] (V4361)

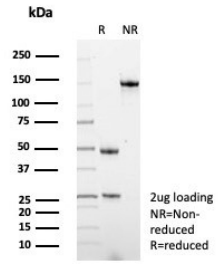
| Catalog No. | Formulation | Size |
|---|---|---|
| V4361-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4361-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V4361SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

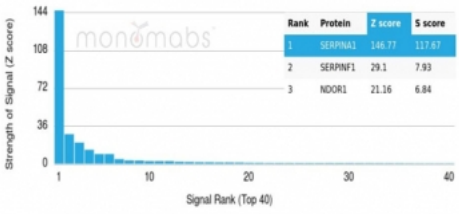
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | AAT/4490 |
| **Purity** | Protein A/G affinity |
| **UniProt** | P01009 |
| **Localization** | Cytoplasm |
| **Applications** | Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT |
| **Limitations** | This Alpha-1-Antitrypsin antibody is available for research use only. |



IHC staining of FFPE human tonsil tissue with Alpha-1-Antitrypsin antibody (clone AAT/4490). 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-Antitrypsin Mouse Monoclonal (AAT/4490) as confirmation of integrity and purity.




Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using Alpha-1-Antitrypsin Mouse Monoclonal (AAT/4490). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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 targets on 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-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.

## Description

It recognizes a protein of 54kDa, which is identified antitrypsin (AAT). The immunohistochemical staining of AAT is useful in identification of benign and malignant hepatic tumors and yolk sac carcinomas. Positive staining for AAT is also used in detection of benign and malignant lesions of histiocytic nature. This antibody is may also useful tool in the screening of patients with cryptogenic cirrhosis or other forms of liver disease with fibrosis of uncertain origin.

## Application Notes

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

## Immunogen

A recombinant partial protein sequence (within amino acids 200-400) from the human protein was used as the immunogen for the Alpha-1-Antitrypsin antibody.

## Storage

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


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