

## Alpha-1-Antichymotrypsin (SERPINA3) (Histiocytoma Marker) Antibody

Mouse Monoclonal Antibody [Clone SERPINA3/4187]

| Catalog No    | Format  | Size   |
|---------------|---|--------|
| 12-MSM7-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 12-MSM7-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 12-MSM7-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

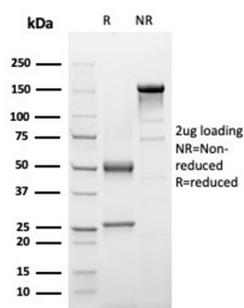
| Applications               | Tested Dillution | Note  |
|----------------------------|------------------|---|
| Immunohistochemistry (IHC) | 1-2ug/ml         | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

### Product Details

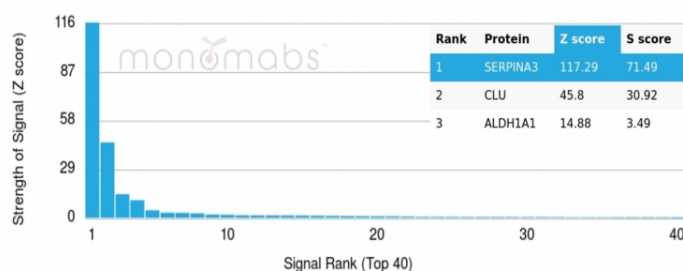
|                               |   |
|-------------------------------|---|
| <b>Clone</b>                  | SERPINA3/4187   |
| <b>Gene Name</b>              | SERPINA3  |
| <b>Immunogen</b>              | Recombinant human Antichymotrypsin (AACT) protein fragment (around aa 49-187) (exact sequence is proprietary) |
| <b>Host</b>                   | Mouse   |
| <b>Clonality</b>              | Monoclonal  |
| <b>Isotype / Light Chain</b>  | IgG2b / Kappa   |
| <b>Mol. Weight of Antigen</b> | 65-76kDa  |
| <b>Cellular Localization</b>  | Secreted  |
| <b>Species Reactivity</b>     | Human   |
| <b>Positive Control</b>       | HeLa cells. Human tonsil, pancreas or histiocytoma.   |

\*Optimal dilution for a specific application should be determined.

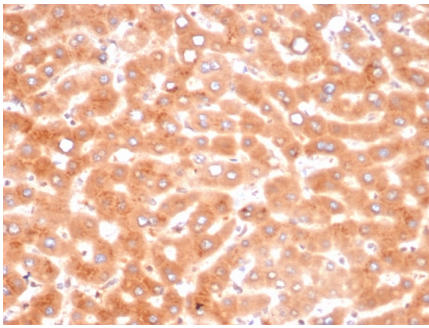
### Product Images for Alpha-1-Antichymotrypsin (SERPINA3) (Histiocytoma Marker) Antibody



SDS-PAGE Analysis of Purified AACT Mouse Monoclonal Antibody (SERPINA3/4187). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing >19,000 full-length human proteins using Monospecific to Alpha-1-Antichymotrypsin Mouse Monoclonal Antibody (SERPINA3/4187). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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™ 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 be 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.



Formalin-fixed, paraffin-embedded human liver stained with Alpha-1-Antichymotrypsin Mouse Monoclonal Antibody (SERPINA3/4187).

### Specificity & Comments

It 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  $\alpha$ -1-antitrypsin (AAT), with which it shares nucleic acid and protein sequence homology. Both are major acute phase reactants; 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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Cardiovascular, Immunology