

Anti-alpha 1 Antichymotrypsin Antibody [SERPINA3/4185] (A277556)

Specifications:

Name:	Anti-alpha 1 Antichymotrypsin Antibody [SERPINA3/4185]
Description:	Mouse monoclonal [SERPINA3/4185] antibody to alpha 1 Antichymotrypsin.
Specificity:	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 α 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.
Applications:	IHC-P
Recommended Dilutions:	IHC-P: 1-2 μ g/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 49-187, of human alpha 1 Antichymotrypsin. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	SERPINA3/4185
Isotype:	IgG2a
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 μ g/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Specifications continued:

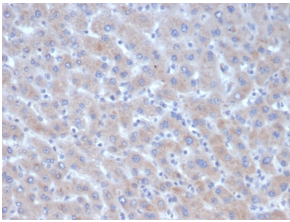
General Notes:

This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-alpha 1 Antichymotrypsin Antibody [SERPINA3/4185] - BSA and Azide free (A278144).

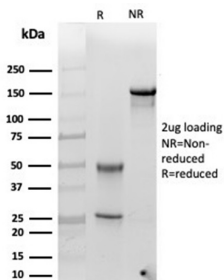
Disclaimer:

This product is for research use only. It is not intended for diagnostic or therapeutic use.

Images:



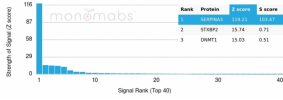
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human liver tissue using Anti-alpha 1 Antichymotrypsin Antibody [SERPINA3/4185].



SDS-PAGE analysis of Anti-alpha 1 Antichymotrypsin Antibody [SERPINA3/4185] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

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Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-alpha 1 Antichymotrypsin Antibody [SERPINA3/4185]. Z-Score 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.