

Product Datasheet

Alpha-1-Antichymotrypsin Antibody / AACT / SERPINA3 (orb2635546)

Catalog Number	orb2635546
Description	<p>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 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.</p>
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P
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	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the Alpha-1-Antichymotrypsin antibody should be determined by the researcher.
Formula	1 mg/ml in 1X PBS; BSA free, sodium azide free

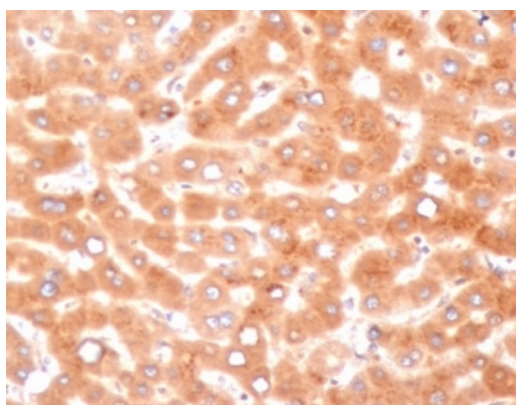
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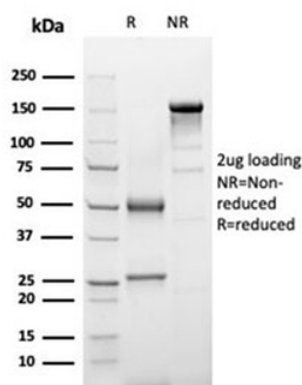
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Isotype	Mouse IgG2b, kappa
Clonality	Monoclonal
Clone Number	SERPINA3/4187
Antibody Type	Primary Antibody
Uniprot ID	P01011
Hazard Information	This Alpha-1-Antichymotrypsin antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human liver tissue with Alpha-1-Antichymotrypsin antibody (clone SERPINA3/4187). HIER: boil tissue sections in pH9 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.

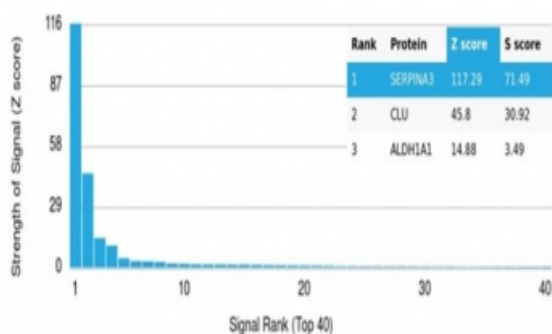
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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 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.

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