

Anti-APC-AAT complexes, neoepitope (human)

CAT. NO. ABS 001-07

OVERVIEW

Product Name	Anti-APC-AAT complexes, neoepitope (human)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	APC-7
Tested Applications	ELISA		

SPECIFICITY

Specificity ABS 001-07 is specific for a conformation-dependent neoepitope that is expressed in activated protein C upon complex-formation with α 1-antitrypsin. No reaction is seen to non-complexed α 1-antitrypsin and only very little cross reaction to protein C zymogen. Note that specificity is calcium dependent.

Immunogen Recombinant human activated protein C **Gene ID** 5624, 5265

Target Protein C is a vitamin K-dependent serine protease produced in the liver and made up of 2 polypeptide chains. The 62kDa proenzyme is activated by thrombin and the active enzyme cleaves factor Va and VIIIa and thus inhibits blood coagulation. The molecular weight of the active enzyme is 55kDa and the normal concentrations in human plasma is approximately 1-3 ng/ml because of the very fast turnover, the proenzyme concentration is approximately 3 μ g/ml. The activated protein C (APC) is inhibited by members of the serine protease inhibitor (serpin) family, of which α 1-antitrypsin (AAT) and protein C inhibitor (PCI) are the most important.

Species Reactivity POSITIVE Human **Species Reactivity NEGATIVE** Not determined

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

ELISA ABS 001-07 reacts strongly with APC-AAT complexes in ELISA. It can be used in sandwich ELISA in combination with a polyclonal anti-protein C antiserum. Note, that the conformational neoepitope expressed in the APC-AAT complex can also be expressed in APC coated directly onto a high-binding microtiter plate.

SCIENTIFIC REFERENCES

N/A

CONDITIONS

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.