Anti-APC–AAT complexes, neoepitope (human)

Mouse monoclonal antibody

CAT. NO. **ABS 001-07**

Subclass: IgG1/k
Clone: PC 7

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
TESTED APPLICATIONS	ELISA
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE 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.

PRESENTATION

Content:	Available in 400 µL and 1 mL size.1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-G purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8ºC without exposure to light. No precautions necessary during handling.

APPLICATION	**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.
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 µg/ml. The activated protein C (APC) is inhibited by members of the serine protease inhibitor (serpin) family, of which a_1-antitrypsin (AAT) and protein C inhibitor (PCI) are the most important.

REFERENCES