APC-AAT complexes, neoepitope (human) monoclonal antibody (PC 7)

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, thus inhibiting blood coagulation. The molecular weight of the active enzyme is 55kDa. The normal concentration in human plasma is approximately 1-3 ng/mL due to the very fast turnover and the proenzyme concentration of approximately 3 ug/mL. The activated protein C (APC) is inhibited by members of the serine protease inhibitor (serpin) family, of which alpha1-antitrypsin (AAT) and protein C inhibitor (PCI) are the most important.

This antibody is covered by our Worry-Free Guarantee.

Ordering Information

Order Online »

BPD-ABS-001-07-1	1mg
BPD-ABS-001-07-04	400µg

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	+4°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Activated protein C and α1-antitrypsin complex
Application	ELISA
Clone	PC 7
Formulation	Liquid. In 0.01M phosphate buffer, pH 7.4, containing 0.5M sodium chloride and 15mM sodium azide.
Host	Mouse
Immunogen	Recombinant human activated protein C.
Isotype	IgG1κ
Purity Detail	Protein A/G-purified.
Source	From culture supernatant.
Species Reactivity	Human
Specificity	Specific for a conformation-dependent neoepitope that is expressed in activated protein C upon complex-formation with α1-antitrypsin. No reaction is seen to non-complexed α1-antitrypsin and only very little cross reaction to protein C zymogen. Note that specificity is calcium dependent.
UniProt ID	P04070 (APC), P01009 (AAT)
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee .**

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com