
Activated Protein C Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 250212

Unit: 0.2 mg

Description:

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 alpha1-antitrypsin (AAT) and protein C inhibitor (PCI) are the most important. This antibody is specific for a conformation-dependent neoepitope that is expressed in activated protein C upon complex-formation with alpha1-antitrypsin. No reaction is seen to non-complexed alpha1-antitrypsin and weak cross-reaction with protein C zymogen. The antibody specificity is calcium dependent.

Isotype: Mouse IgG1

Applications: E

Species Reactivity: H

Format: Each vial contains 0.2 mg IgG in 0.2 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-A/G affinity chromatography.

Alternate Names: Activated Protein C; Protein C; APC; Anticoagulant protein C; Autoprothrombin IIA; Blood coagulation factor XIV

Accession No.: P04070

Antigen: Recombinant form of human activated protein C adsorbed on aluminum hydroxide gel

Application Notes: Product Cat. No. 250212 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. E:

1:500

Storage: Store at 4°C. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.