

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	Activated Protein C, Human, clone PC107		
<b>Catalog number</b>	HM2151-20UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	200 µl	<b>Amount</b>	20 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Rat IgG1	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	4°C		

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes						•		•
No								
N.D.	•	•	•	•	•		•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

**General Information**

**Description** Monoclonal antibody PC107 is specific for activated Protein C (APC). Protein C (PC) is an important regulator of the blood coagulation system. The anticoagulant PC is converted to activated protein C (APC) by the thrombomodulin (TM)–thrombin complex on the phospholipid surface of endothelial cells, monocytes, and platelets. This process is enhanced in the presence of the endothelial protein C receptor (EPCR). In addition to its regulatory function in the blood coagulation system, studies indicate important roles for APC in inflammatory processes. The administration of APC prevents lethal effects of Escherichia coli–associated sepsis in experimental animal models and appears effective for the treatment of patients with meningococemia or acquired PC deficiency. Treatment with APC improves the clinical outcome of patients with sepsis. The anti-inflammatory activity of APC depends on its ability to suppress the secretion of cytokines as tumor necrosis factor- $\alpha$  by inflammatory cells, the activation and extravasation of leukocytes and the expression and function of adhesion molecules. APC may also suppress the expression of growth factors and members of nuclear factor- $\kappa$ B (NF- $\kappa$ B) family of transcription factors. The monoclonal antibody PC107 is specific for activated human protein C (APC) and it lacks reactivity for Protein C. The monoclonal antibody recognizes the light chain of the APC molecule.

**Aliases** APC, Activated Protein C

**Storage&stability** Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

**Precautions** For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Brenda Teunissen

Date  
18/11/2020

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).