

**MONOCLONAL ANTIBODY TO
HUMAN PROTEIN C (PC)
clone PC98**



Catalog nr	HM2150 (lot number and expiry date are indicated on the label)
Description	Monoclonal antibody PC98 is specific for human Protein C (PC), 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-kB (NF-kB) family of transcription factors. The monoclonal antibody PC98 is reactive with human protein C and recognizes the Gla-domain of the molecule. PC98 is a calcium-dependent antibody. The monoclonal antibody PC98 reacts to the Gla-domain with calcium.
Species	Rat IgG _{2a}
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The monoclonal antibody PC98 is useful for Western blot and immuno assays.
Use	For Western blotting 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 1:10. It is recommended that users use solution with a calcium concentration of 1 mM while PC98 is a calcium-dependent antibody.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for 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 with the use of or derivation of this product.
Also available	HM2145 Monoclonal antibody against Human EPCR, clone RCR-252 HM2146 Monoclonal antibody against Human Thrombomodulin, clone RTM96 HM2148 Monoclonal antibody against Human Protein S (PS), clone PS7 HM2151 Monoclonal antibody against Human Activated Protein C (APC), clone PC107