

Product datasheet for TA386262

Protein C (PROC) Mouse Monoclonal Antibody [Clone ID: HPC-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HPC-4
Applications:	BI, ELISA, Protein Purification
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	This antibody was raised by immunising mice with human protein C.
Specificity:	<p>Specifically binds to a specific twelve peptide sequence (EDQVDPRLIDGK) in the activation region of the Protein C (spanning the thrombin cleavage site). Does not react with activated protein C. Has been shown to be cross-reactive with baboon Protein C but not with bovine or mouse Protein C.</p> <p>HPC-4 binds human protein C only in the presence of Ca²⁺, it binds to the reduced carboxymethylated protein C heavy chain and it blocks protein C activation but does not bind or inactivate protein C or activated protein C bound to its plasma inhibitor (Taylor et al., 1987). It is an anti-epitope tag antibody, as it recognises EDQVDPRLIDGK sequence (Taylor et al., 1987). Furthermore, it has been shown to work in ELISAs to determine expression levels (Velandar et al., 1992). HPC-4 has been shown to be effective at purifying proteins tagged with its epitope (Rezaie et al., 1992). Has been used to block the activation of Protein C by the thrombin-thrombomodulin complex (Stearns et al., 1988). It was used for the same purpose in Baboons to lower the threshold of sepsis (Taylor Jr et al., 1987). HPC-4 has been used in many other studies to observe the function of Protein C by knocking out its function in a Ca²⁺ dependent manner, purification and others (Bae et al., 2007; Tanaka et al., 2005).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.



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Stability: 3 years from dispatch.

Gene Name: protein C, inactivator of coagulation factors Va and VIIIa

Database Link: [Entrez Gene 5624 Human P04070](#)

Synonyms: APC; PC; PROC1