



Goat anti Human Protein C Inhibitor polyclonal antibody (CABT-L498)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is specific for Protein C Inhibitor as demonstrated by immunoelectrophoresis and ELISA.
Target	PCI - Protein C Inhibitor
Immunogen	Human Protein C Inhibitor purified from plasma.
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Affinity purified
Conjugate	Unconjugated
Applications	IEP, ELISA
Format	Liquid
Size	0.5 mg
Buffer	10 mM HEPES, pH 7.4, 150 mM NaCl, 50% (v/v) glycerol.
Preservative	None
Storage	Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage in frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use.

BACKGROUND

Introduction	Protein C Inhibitor (PCI), also known as Plasminogen Activator Inhibitor 3 (PAI3), is a member of the SERPIN family of proteinase inhibitors. It is produced in the liver as a single chain glycoprotein (mass of 57 kDa) and circulates in plasma at a concentration of 5 µg/ml (~90 nM). PCI is also found in urine in lower concentrations of 250 ng/mL (~0.4 nM). PCI is the primary inhibitor of activated Protein C (APC) in plasma but demonstrates a relatively broad specificity, also inhibiting thrombin, FXa, F.XIa, kallikrein, tPA, urokinase, prostate specific antigen, acrosin, chymotrypsin and trypsin. The preferred enzyme target for PCI appears to be thrombin and this interaction is increased by more than 100 fold in the presence of thrombomodulin. Like ATIII and HCII, the inhibitory activity of PCI towards some of these enzymes is stimulated by high concentrations of heparin (5 U/ml) which can accelerate the rate of inactivation as much as 50 fold. Enzyme inhibition by PCI occurs through proteolytic cleavage at Arg354-Ser355 and subsequent rapid formation of a stable, inactive 1:1 enzyme-PCI complex. Interaction with APC results in an SDS-stable APC-PCI complex of 102 kDa.
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Keywords	SERPINA5;serpin peptidase inhibitor;clade A (alpha-1 antiproteinase;antitrypsin);member 5;PCI;PAI3;PAI-3;PCI-B;PROCI;PLANH3;plasma serine protease inhibitor;protein C inhibitor;plasminogen activator inhibitor-3;acrosomal serine protease inhibitor;plasminogen activator inhibitor III;serine (or cysteine) proteinase inhibitor;clade A (alpha-1 antiproteinase;antitrypsin);member 5;anti-PCI
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GENE INFORMATION

Entrez Gene ID	5104
UniProt ID	P05154