



Goat anti Human Heparin Cofactor II polyclonal antibody [HRP] (CABT-L493)

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

PRODUCT INFORMATION

Specificity	Prior to conjugation, this antibody was specific for HCII as demonstrated by immunoelectrophoresis and ELISA.
Target	Heparin Cofactor II
Immunogen	Human Heparin Cofactor II purified from plasma.
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human, Rat, Mouse, Rabbit, Canine, Porcine
Purification	Affinity purified
Conjugate	HRP
Applications	Suitable for use in IEP, ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Liquid
Size	100 µg
Buffer	A buffered stabilizer solution containing 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. Avoid exposure to sodium azide as this is an inhibitor of peroxidase activity.

BACKGROUND

Introduction

Heparin Cofactor II (HCII), also known as heparin cofactor A and dermatan sulphate cofactor, is a single chain glycoprotein produced in the liver and circulates in plasma at concentration of 50-100 µg/ml (0.8-1.5 µM). A member of the SERPIN family of proteinase inhibitors, HCII exhibits a relatively narrow specificity and is only known to inhibit the serine proteinases thrombin and chymotrypsin. The inhibitory activity toward thrombin is accelerated up to 1000-fold in the presence of optimal concentrations of heparin. Unlike Antithrombin, thrombin inhibition by HCII is also enhanced by dermatan sulphate. HCII has an apparent molecular weight of 65,600 daltons and interaction with thrombin results in a covalent 1:1 enzyme-inhibitor complex of 102,600 daltons.

Keywords

SERPIND1;serpin peptidase inhibitor, clade D (heparin cofactor), member 1;HC2;LS2;HCF2;HCII;HLS2;THPH10;D22S673;heparin cofactor 2;serpin D1;leuserpin 2;protease inhibitor leuserpin-2;serine (or cysteine) proteinase inhibitor, clade D (heparin cofactor), member 1;

GENE INFORMATION

Entrez Gene ID [3053](#)

UniProt ID [P05546](#)
