

Anti-Serpin D1 Antibody (2M277)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2M277
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of human serpinD1 in human liver with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to hepatocyte.
	2. Immunochemical staining of human serpinD1 in human hepatoma with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to hepatocyte.
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human SerpinD1 protein (TMPY-00917)
Antigen Species:	Human
Synonyms:	HCII;Hcf2;Serpind1;AA985900;AI303446;serpin peptidase inhibitor, clade D (heparin cofactor), member 1;MGC107662;AI30344 6

Research Background

SerpinD1, also known as heparin cofactor II, is a member of Serpin superfamily of the serine proteinase inhibitors. HCII is a glycoprotein in human plasma that inhibits thrombin and chymotrypsin, and the rate of inhibition of thrombin is rapidly increased by Dermatan sulfate (DS), heparin (H) and glycosaminoglycans(GAG). The stimulatory effect of glycosaminoglycans on the inhibition is mediated, in part, by the N-terminal acidic domain of HCII. Interestingly, a C-terminal His-tagged recombinant HCII exhibits enhanced activity of thrombin inhibition. It has been suggested that HCII plays a unique and important role in vascular homeostasis, and accordingly mutations in this gene or congenital HCII deficiency is potentially associated with thrombosis. HCII specifically inhibits thrombin action at the site of vascular wall injury and HCII-thrombin complexes have been detected in human plasma. HCII protects against thrombin-induced vascular remodeling in both humans and mice and HCII is a predictive biomarker and therapeutic target for atherosclerosis. SerpinD1 also inhibits chymotrypsin, but in a glycosaminoglycan-independent manner.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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