

Anti-Serpin D1 Antibody (2E452)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	2E452
Purification:	Protein A

Applications

Verified Activity:	1. Mouse SERPIND1 was immunoprecipitated using: <ul style="list-style-type: none">-Lane A:0.5 mg Hela Whole Cell Lysate-0.5 µL anti-Mouse SERPIND1 rabbit monoclonal antibody and 15 µL of 50 % Protein G agarose.-Primary antibody:<ul style="list-style-type: none">-Anti-Mouse SERPIND1 rabbit monoclonal antibody, at 1:500 dilution.-Secondary antibody:<ul style="list-style-type: none">-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.-Developed using the odyssey technique.-Performed under reducing conditions.-Predicted band size: 57 kDa.-Observed band size: 57 kDa.
	2. Anti-SERPIND1 rabbit monoclonal antibody at 1:500 dilution. <ul style="list-style-type: none">-Lane A: HepG2 Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary<ul style="list-style-type: none">-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.-Developed using the Odyssey technique.-Performed under reducing conditions.-Predicted band size:57 kDa.-Observed band size:53 kDa
Application:	ELISA,IP,WB
Recommended	WB: 1:500-1:1000; ELISA: 1:25000-1:50000; IP: 0.2-1 µL/mg of lysate

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: Mouse SerpinD1 protein (TMPY-01254)
Antigen Species: Mouse
Synonyms: AI30344 6;serpin peptidase inhibitor, clade D (heparin cofactor), member 1;MGC107662;Hcf2;HCII;AA985900;Serpind1;AI303446

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 an 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.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481