

Human Serpin D1/Heparin Cofactor II Antibody

Monoclonal Mouse IgG_{2B} Clone # 373008

Catalog Number: MAB3198

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Serpin D1/Heparin Cofactor II in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human Serpin A3, A4, B6, B8, C1, I1, I2, recombinant mouse Serpin A1, A6, D1, E1, E2, F1, or F2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 373008
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human Serpin D1/Heparin Cofactor II Gly20-Arg498 Accession # P05546
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

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	Recommended Concentration	Sample
Western Blot	1 μg/mL	Recombinant Human Serpin D1/Heparin Cofactor II (Catalog # 3198-PI)
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human Serpin D1/Heparin Cofactor II (Catalog # 3198-PI), see our available Western blot detection antibodies

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	 12 months from date of receipt, -20 to -70 °C as supplied. 		
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 		
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 		

BACKGROUND

Serpin D1, also known as Heparin Cofactor II, is a member of the Serpin superfamily of the serine protease inhibitors (1). Similar to Serpins A5 and C1, it inhibits thrombin and this activity is enhanced by heparin. Interestingly, a C-terminal His-tagged recombinant Serpin D1 had enhanced heparin effect, which was maintained in a plasma-based thrombin inhibition assay (2). Congenital Serpin D1 deficiency is a potential risk factor for thrombosis (3).

References:

- 1. Silverman, G.A. et al. (2001) J. Biol. Chem. 276:33293.
- 2. Bauman, S.J. et al. (1999) J. Biol. Chem. 274:34556.
- 3. Tollefsen, D.M. (2002) Arch. Pathol. Lab. Med. 126:1394.

