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|--------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Product name:</b>     | HC-II Rabbit Polyclonal Antibody                                                                              |
| <b>Cat number:</b>       | ABN11928                                                                                                      |
| <b>Conjugate:</b>        | Unconjugated                                                                                                  |
| <b>Size:</b>             | 100µL                                                                                                         |
| <b>Clone:</b>            | Polyclonal                                                                                                    |
| <b>Concentration:</b>    | 1mg/ml                                                                                                        |
| <b>Host:</b>             | Rabbit                                                                                                        |
| <b>Isotype:</b>          | IgG                                                                                                           |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human Heparin Cofactor II. AA range:41-90 |
| <b>Reactivity:</b>       | Human,Mouse,Rat                                                                                               |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000                                      |
| <b>Molecular Weight:</b> | 60kDa                                                                                                         |
| <b>Purification:</b>     | Affinity purification                                                                                         |
| <b>Form:</b>             | Liquid                                                                                                        |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.                            |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.                  |

**Background:**

This gene belongs to the serpin gene superfamily. Serpins play roles in many processes including inflammation, blood clotting, and cancer metastasis. Members of this family have highly conserved secondary structures with a reactive center loop that interacts with the protease active site to inhibit protease activity. This gene encodes a plasma serine protease that functions as a thrombin and chymotrypsin inhibitor. The protein is activated by heparin, dermatan sulfate, and glycosaminoglycans. Allelic variations in this gene are associated with heparin cofactor II deficiency. [provided by RefSeq, Jul 2015],disease:Defects in SERPIND1 are the cause of heparin cofactor 2 deficiency (HCF2D) [MIM:612356]. HCF2D is an important risk factor for hereditary thrombophilia, a hemostatic disorder characterized by a tendency to recurrent thrombosis.,domain:The N-terminal acidic repeat region mediates, in part, the glycosaminoglycan-accelerated thrombin inhibition.,function:Peptides at the N-terminal of HC-II have chemotactic activity for both monocytes and neutrophils.,function:Thrombin inhibitor activated by the glycosaminoglycans, heparin or dermatan sulfate. In the presence of the latter, HC-II becomes the predominant thrombin inhibitor in place of antithrombin III (AT-III). Also inhibits chymotrypsin, but in a glycosaminoglycan-independent manner.,similarity:Belongs to the serpin family.,tissue specificity:Expressed predominantly in liver.,