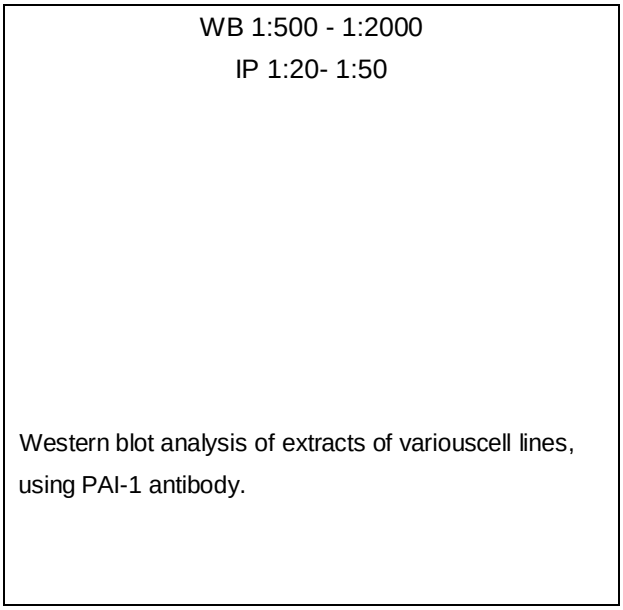
PAI-1 Polyclonal Antibody

E91297

Catalog Number: E91297
Amount: 100ul
Background: PAI-1 is a secreted protein that belongs to the serine proteinase inhibitor (serpin) superfamily. It inhibits urokinase and tissue plasminogen activators (uPA and tPA) and thus, reduces the conversion of inactive plasminogen to plasmin (1). PAI-1 regulates fibrinolysis and plays an important role in vessel patency and tissue remodeling. Secreted PAI-1 interacts with the extracellular matrix (ECM) component vitronectin, thereby modulating cell-ECM interactions (2,3). PAI-1 is expressed in a variety of tissues with higher expression in liver, vascular endothelial cells, platelets, macrophages, and adipose tissue (1). Increased levels of PAI-1 are associated with deep vein thrombosis (4). Defects in PAI-1 cause plasminogen activator inhibitor-1 deficiency (PAI-1D), which is characterized by increased bleeding after injury or surgery (5). Research studies have shown that high levels of PAI-1 are associated with obesity, aging, insulin resistance, and type 2 diabetes (6-8). PAI-1 is transcriptionally regulated by TGF-β and mediates TGF-β-induced inhibition of cell migration and invasion in cancer cells (9). Studies have shown PAI-1 to be also involved in fibrosis (10).
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: SERPINE1;PAI;PAI-1;PAI1;PLANH1; Plasminogen activator inhibitor1;Endothelial plasminogen activator inhibitor; Serpin E1;
Immunogen: A synthetic peptideof human PAI-1
Purification: Affinity purification
Reactivity: H M
Applications: WB IP
Molecular Weight: 50kDa
Swiss-Prot No. : P05121
Gene ID: 5054
References: 1. Pannekoek, H. et al. (1986) EMBO J 5, 2539-44. 2. Sigurdardottir, O. and Wiman, B. (1994) BiochimBiophysActa 1208, 104-10. 3. Konstantinides, S. et al. (2001) Circulation 103, 576-83. 4. Baldwin, J.F. et al. (2012) J VascSurg 56, 1089-97. 5. Fay, W.P. et al. (1997) Blood 90, 204-8. 6. Pannacciulli, N. et al. (2002) Obes Res 10, 717-25. 7. Juhan-Vague, I. et al. (1991) Diabetologia 34, 457-62. 8. Hashimoto, Y. et al. (1987) Thromb Res 46, 625-33. 9. Humbert, L. and Lebrun, J.J. (2012) Cell Signal , . 10. Zhang, L.P. et al. (1999) J Hepatol 31, 703-11.

For Research Use Only

WB 1:500 - 1:2000
IP 1:20- 1:50



Western blot analysis of extracts of variouscell lines, using PAI-1 antibody.