

PAI1 Rabbit monoclonal antibody

Catalog: MB66374

Host: Rabbit

Reactivity: Human, Mouse

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. 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. PAI-1 is expressed in a variety of tissues with higher expression in liver, vascular endothelial cells, platelets, macrophages, and adipose tissue. Increased levels of PAI-1 are associated with deep vein thrombosis. Defects in PAI-1 cause plasminogen activator inhibitor-1 deficiency (PAI-1D), which is characterized by increased bleeding after injury or surgery. Research studies have shown that high levels of PAI-1 are associated with obesity, aging, insulin resistance, and type 2 diabetes. PAI-1 is transcriptionally regulated by TGF- β and mediates TGF- β -induced inhibition of cell migration and invasion in cancer cells. Studies have also shown PAI-1 to be involved in fibrosis.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 45 kDa

Swiss-Prot:

P05121

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of PAI1 protein.

DATA:



Western blot analysis of PAI1 expression in NIH3T3 (A), HeLa (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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