



Polyclonal Antibody against Human PAI-1

Catalog Number: 11070

Size: 100 µg

Host: Rabbit

Introduction to the Molecule

Plasminogen activator inhibitor-1 (PAI-1) is the primary inhibitor of tissue-type and urokinase-type plasminogen activator, playing a major role in fibrinolysis^{1,2}. PAI-1 is mainly produced by the endothelium, but is also secreted by other tissue types, such as adipose tissue³. It is normally present at low levels in plasma and tissue, but its expression and release are increased in various disease states (such as a number of forms of cancer), as well as in obesity and the metabolic syndrome⁴. PAI-1 is also involved in the pathophysiology of renal, pulmonary, cardiovascular, and metabolic diseases⁵⁻⁸. Elevated local or systemic PAI-1 can also exacerbate such pathologic conditions.

Purification

Rabbit crude IgG was purified by protein-G chromatography.

Immunogen

Recombinant full-length human PAI-1 expressed in *E.coli*.

Specificity

The antibody detects circular human PAI-1 in ELISA.

Formulation & Storage

Liquid in phosphate-buffered saline (PBS). Store at -20°C for less than one week. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/defrost cycles.

Application/Usage

ELISA - This antibody can be used in ELISA with the appropriate secondary reagents to detect human PAI-1.

Quality Control Test

BCA to determine quantity of the antibody.

References

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- [2] Dellas C, et al. (2005) *Thromb Haemost.* 2005; 93: 631-640
- [3] Binder BR, et al. (2002) *News Physiol Sci* 17:56-61
- [4] Vague P, et al. (1986) *Metabolism.* 35: 250-253
- [5] Sobel Be, et al. (2003) *Arterioscler Thromb Vasc Biol.* 23: 1979-1989
- [6] Eitzman DT, et al. (1996) *J Clin Invest.* 97(1):232-7
- [7] Gils A, et al. (2004) *Thromb. Haemost.* 91 (3): 425-37
- [8] Cale JM, Lawrence DA. (2007) *Curr Drug Targets.* 8(9):971-81