Monoclonal Antibody against Human PAI-1 (3H3)

Catalog Number: 21070 **Size: 100 µg** **Host: Mouse**

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 tissue[3]. 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 syndrome[4]. PAI-1 is also involved in the pathophysiology of renal, pulmonary, cardiovascular, and metabolic diseases[5-8]. Elevated local or systemic PAI-1 can also exacerbate such pathologic conditions.

Purification

Protein G affinity purification

Immunogen

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

Specificity

The antibody detects human PAI-1.

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

This antibody can be used as a capture antibody in a human PAI-1 ELISA in combination with polyclonal anti-human PAI-1 antibody as detection antibody.

References

[1] Lijnen HR, et al. (1995) *Baillieres Clin Haematol*. 8: 277–290
[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
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