

PAI1 Monoclonal Antibody (MA-56A7C10)

Catalog Number      MA1-40226

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Pig
Host/Isotope	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	MA-56A7C10	ELISA (ELISA)	1:50
Immunogen	Human PAI-1.	Functional Assay (FN)	1:50
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.1 mg/mL		
Storage Conditions	4° C		

**Product specific information**

MA1-40226 detects PAI-1 from human and swine samples. MA1-40226 has been successfully used in ELISA and functional assay applications. The MA1-40226 immunogen is human PAI-1.

**Background/Target Information**

PAI1 (plasminogen activator inhibitor 1) belongs to serine protease inhibitor superfamily, and is the principal inhibitor of tissue-type and urokinase-type plasminogen activators (tPA and uPA). Platelets are the main source of the circulating PAI11, but it is synthesized and secreted by many tissue and cell types, including fibroblasts, smooth muscle cells, endothelial cells, hepatocytes, and inflammatory cells. Expression of PAI11 can be regulated at the transcriptional level by many factors including growth factors, cytokines, hormones, inflammatory factors, glucose or lipid metabolites, vascular tone regulating factors, chemicals, and other environmental or physical factors. PAI1 is present at increased levels in various disease states, and has been linked to an increased occurrence of thrombosis in obesity, thrombophilia and the metabolic syndrome. Defects in PAI-1 are characterized by abnormal bleeding. PAI1 mediates inhibition of fibrinolysis by inhibiting the activity of plasminogen activator, and may promote neuronal survival. Other defects in PAI1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency). Alternatively spliced transcript variants encoding different isoforms of PAI1 have been found.

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