

Anti-PAI-1 [8H9D4] Bulk Size Ab03641-1.1-BT

Isotype and Format: Mouse IgG1, Kappa

Clone Number: 8H9D4

Alternative Name(s) of Target: SERPINE1; PAI1; PAI; PLANH1; Plasminogen activator inhibitor 1; Endothelial plasminogen activator inhibitor; Serpin E1; MA-8H9D4; APG

UniProt Accession Number of Target Protein: P05121

Published Application(s): inhibit, neutralize, ELISA

Published Species Reactivity: Pig, Human

Immunogen: The original antibody was generated using PAI-1 complex as an immunogen.

Specificity: This antibody binds human PAI-1 at an epitope between amino acids 277 and 327, more particularly it binds residues between Arg300, Gln303 and Asp305 located on the loop between α -helix I and β -strand 5A. This antibody cross-reacts with pig PAI-1 but not with mouse or rat. Plasminogen activator inhibitor-1 (PAI-1), is a serine protease inhibitor, a unique member of the serpin superfamily which plays an important role in fibrinolysis and is an established risk factor for cardiovascular diseases. It a primary inhibitor of tissue-type plasminogen activator (PLAT) and urokinase-type plasminogen activator (PLAU). As PLAT inhibitor, it is required for fibrinolysis down-regulation and is responsible for the controlled degradation of blood clots. As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading .

Application Notes: This antibody is reported to have strong inhibitory effect towards PAI-1 activity. The cross reactivity of this antibody towards other PAI-1 than human was done using ELISA (PMID: 9048903). This antibody shifts the reaction to the substrate pathway without decreasing the rate-limiting constant for reactive center loop insertion by tPA (PMID: 12223472). This antibody interferes with the final locking step in the serpin/proteinase interaction, thereby explaining its substrate inducing properties (PMID: 12871373).

Antibody First Published in: Debrock et al. Neutralization of plasminogen activator inhibitor-1 inhibitory properties: identification of two different mechanisms. *Biochim Biophys Acta*. 1997 Feb 8;1337(2):257-66.

[PMID:9048903](#)

Note on publication: The paper investigates two mechanisms of neutralization of the inhibitory activity of PAI-1 using monoclonal antibodies.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In:

PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.