



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-PAI-1 [8H9D4] Ab03641-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rabbit IgG, 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  $\alpha$ -helix I and  $\beta$ -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.