



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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 [MEDI-579] Standard Size Ab03644-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human scFv format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** MEDI-579

**Alternative Name(s) of Target:** SERPINE1; PAI1; PAI; PLANH1; Plasminogen activator inhibitor 1; Endothelial plasminogen activator inhibitor; Serpin E1; Humanized Ab167; MEDI579; Antibody 08

**UniProt Accession Number of Target Protein:** P05121

**Published Application(s):** inhibit, neutralize, ELISA

**Published Species Reactivity:** Rat, Human, Mouse

**Immunogen:** The original antibody was isolated from a human scFv library by panning on recombinant human and rat PAI-1 followed by screening in a PAI-1/tPA competition binding assay.

**Specificity:** This antibody binds the reactive center loop (RCL) of human PAI-1 and at the same exosite used by both tissue and urokinase plasminogen activators (tPA and uPA). This antibody binds the active form of human PAI-1. 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 specifically inhibits serine protease interactions with PAI-1 while conserving vitronectin binding. The binding of this antibody to native and latent form of human PAI-1 was determined using ELISA. This antibody was able to neutralize recombinant human, rat and mouse PAI-1 activity in species-relevant tPA-coupled chromogenic assays. The Fab version of this antibody binds human and rat PAI-1 with a binding affinity (Kd) of 5.34 pM and 84 pM respectively. Competition binding experiments also demonstrates that MEDI-579 does not interact with other circulating serpins (PMID: 30733557). This antibody is effective in slowing the progression of diabetic nephropathy in db/db mice and that the effect is additive to ACEI (PMID: 27511457).

**Antibody First Published in:** Vousden et al. Discovery and characterization of an antibody that

selectively modulates the inhibitory activity of plasminogen activator inhibitor-1. Sci Rep. 2019 Feb 7;9(1):1605. [PMID:30733557](#)

**Note on publication:** Describes the generation and characterization of this antibody.

## Product Form

**Size:** 100 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.