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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-PAI-1 [MEDI-579] Bulk Size Ab03644-10.3-BT

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](https://pubmed.ncbi.nlm.nih.gov/30733557/)

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

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.