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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-PAI-1 [8H9D4] Ab03641-10.3-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 chimeric human 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: Human IgG1, Fc Silent™, 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.