

## Monoclonal antibody against human PAI-2

Product No. ADG3922

### Description

Plasminogen Activator Inhibitor Type 2 (PAI-2) is one of two endogenous inhibitors of urokinase-type plasminogen activator (urokinase, uPA). PAI-2 is a member of the serpin family of protease inhibitors. It exists as a 48 kDa non-glycosylated form found in placental tissue and a 60 kDa glycosylated secreted form found in maternal blood and ascitic fluid.

### Preparation

The monoclonal antibody ADG3922 (clone HD-PAI-2 22.1) is a murine monoclonal antibody, subclass IgG<sub>1</sub> recognizing the human Plasminogen Activator Inhibitor Type 2 (PAI-2). Mice were immunized with recombinant PAI-2. The antibody has been purified from cell culture supernatant using Protein G affinity chromatography. The antibody reacts with both native and recombinant PAI-2.

### Specificity

The antibody reacts with both the high molecular weight (60kD) and the low molecular weight (48kD) forms of PAI-2. The antibody also reacts with tPA/PAI-2 and uPA/PAI-2 complexes.

The antibody is specific for human PAI-2. No cross-reactivity was observed against other members of the plasminogen activator system (PAI-1, uPA, and tPA).

### Presentation

Screw capped vial containing 250 µg of purified antibody in PBS pH 7.4 + 0.01% ProClin300. The IgG concentration is given on the vial label. Spin the vial briefly before opening.

### Storage and Stability

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

### Applications

#### ELISA

The antibody can be used as capture or detection antibody in ELISAs (1).

#### Flow Cytometry

The antibody can be used for flow cytometric analysis of cells expressing PAI-2 on their surface (2).

#### Immunohistochemistry

The antibody can be used for immunohistological staining of frozen sections (3) and formalin-fixed, paraffin-embedded control tissue after antigen retrieval (4).

### Warnings and Precautions

**Contains:** Mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) and Modified alkyl carboxylate (ProClin® 300)

#### Hazard pictograms



Warning

#### Signal word

#### Hazard statements

H317 - May cause an allergic skin reaction.

#### Precautionary statements

P280 - Wear protective gloves.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P501 - Dispose of contents/container in accordance with local/regional/ national/international regulations.

### References

1) Plasminogen activator inhibitor-2: prognostic relevance in 1012 patients with primary breast cancer. Foekens JA, Buessecker F, Peters HA, Krainick U, van Putten WL, Look MP, Klijn JG, Kramer MD. Cancer Res. 1995 Apr 15;55(7):1423-1427.

2) Plasminogen activator inhibitor type-2 (PAI-2) in human keratinocytes regulates pericellular urokinase-type plasminogen activator. Reinartz J, Schaefer B, Bechtel MJ, Kramer MD. Exp Cell Res. 1996 Feb 25;223(1):91-101.

3) Plasminogen activation in bullous pemphigoid immunohistology reveals urokinase type plasminogen activator, its receptor and plasminogen activator inhibitor type-2 in lesional epidermis. Schaefer BM, Jaeger C, Drepper E, Kramer MD. Autoimmunity. 1996;23(3):155-164.

4. Epitopes of components of the plasminogen activation system are re-exposed in formalin-fixed paraffin sections by different retrieval techniques. Ferrier CM et al., J Histochem Cytochem. 1998 Apr;46(4):469-476.

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#### Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.