**Monoclonal antibody against human Plasminogen activator inhibitor type 2**

**Product No. ADG73**

**Applications**

**ELISA**

The antibody can be used as capture or detection antibody in ELISAs (2).

**Flow Cytometry**

The antibody can be used for flow cytometric analysis of cells expressing PAI-2 on their surface (3).

**Immunohistochemistry**

The antibody can be used for immunohistological staining of frozen (4) and formalin-fixed, paraffin-embedded tissue sections (5).

**References**


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

**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. Generally PAI-2 is undetectable in the majority of peripheral blood samples. However levels of PAI-2 appear to be higher in patient’s ascitic fluid from malignant tumors, as compared to benign tumors (1).

**Preparation**

The monoclonal antibody ADG73 (clone HD-PAI-22.1) is a murine monoclonal antibody, subclass IgG1 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 + 0.1% ProClin300. The IgG concentration is 1 mg/ml. 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.