

Monoclonal antibody against human uPA

Product No. ADG3689

Description

The monoclonal antibody ADG3689 (clone HD-UK1, subclass IgG₁) is a murine monoclonal antibody recognizing human urokinase type plasminogen activator (uPA). The antibody has been purified from cell culture supernatant using Protein G affinity chromatography.

Properties

ADG3689 is directed against a B-chain epitope of human urokinase, near the catalytic site. The antibody reacts with free, and receptor bound, single and two chain (HMW) urokinase, uPA/PAI-1 and, uPA/PAI-2 complexes and the B-chain (33 kDa) fragment.

Presentation

Screw capped vial containing 250 µg of purified antibody in PBS pH 7.4, 0.01 % 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.

Applications

A. ELISA

The antibody can be used as detecting antibody in ELISAs. An antibody concentration of 1µg/ml is recommended ^(1, 2).

B. Immunohistochemistry

The antibody is suitable for staining frozen acetone fixed skin sections ⁽³⁾, and formalin fixed, paraffin embedded sections of cancerous and normal human breast and colon tissue where urokinase is present. Working dilutions range from 1:100 ⁽⁴⁾ to 1:25 ⁽⁶⁾.

C. Flow cytometry

The antibody can be used for flow cytometric analysis. An antibody concentration of 10 µg/ml is recommended ⁽⁷⁾.

D. Western Blot Analysis

The antibody is suitable for Western blot analysis, detecting pro-uPA, HMW-uPA and LMW-uPA after electrophoresis under non-reduced conditions and B-chain fragments under reducing conditions at a working concentration of 1 µg/mL ⁽⁸⁾.

E. Inhibition

The antibody was shown to inhibit plasminogen activation on the surface of melanoma cell lines. ⁽⁹⁾.

References

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Gerhart-Hauptmann-Str. 48
 69221 Dossenheim

Tel +49 6221 868023
 Fax +49 6221 8680255

www.loxo.de - info@loxoxo.de

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