

Urokinase, inhibitory, clone PGM2001 Monoclonal Antibody

Catalog No.: MON5018

Quantity: 1 ml

Specificity

The antibody binds to human high molecular weight single-chain urokinase type plasminogen activator (HMW-scuPA, 54 kDa), to high molecular weight two-chain urokinase type plasminogen activator (HMW-tcuPA, 52 kDa) and to low molecular weight single-chain urokinase type plasminogen activator (LMW-scuPA, 33 kDa) with high affinity ($K_d = 0.1$ nM) and does inhibit the ability of urokinase to activate plasminogen. Urokinase reaction with synthetic substrate S2444 is not inhibited.

The antibody is highly specific for urokinase, no cross reactions were found with other serine proteases (tissue plasminogen activator, plasmin, trypsin, chymotrypsin, elastase, and thrombin). Human plasma or plasma proteins do not interfere with its binding to urokinase.

Immunoglobulin type

Murine IgG₁

Use

The antibody can be used for detection of urokinase (RIA, ELISA), affinity purification and for studies on the structural and kinetic parameters of the enzyme. The antibody can be used in immunoblotting (Western, dot-blot).

Instructions for use

The antibody is very stable and can, after appropriate binding, be used 20-40 times in immunopurification of urokinase in 1 M guanidine chloride. For Immunohistochemistry dilute approx. 1:30 - 1:50 and for ELISA dilute, starting from 1:5.000.

Presentation

0.2 mg purified lyophilized ascites.

Reconstitute with 1 ml (sterile) distilled water and add preservative if preferred.

Method of purification

PEG 6000 precipitation + DEAE-cellulose chromatography, gradient elution

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