

Urokinase, non-inhibitory, clone PGM2005 Monoclonal Antibody

Catalog No.: MON5033

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 not 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 whole plasma or plasma proteins do not interfere with its binding to urokinase. Cross-reacts with rat scu/tcu PA.

Immunoglobulin type

Murine IgG₁

Use

The antibody can be used for targeting of urokinase to trombi, cells or extracellular matrix *in vitro* and *in vivo*. The antibody can also be used for quantitative, specific and sensitive assay for urokinase in human fluids (RIA, ELISA) in combination with the inhibiting monoclonal MON5018. It is also suitable for affinity purification of urokinase. It is also useful in dot blots and Western blotting.

Instructions for use

The antibody is very stable and can, after appropriate binding, be used over 20-40 times in immunopurification of urokinase. This antibody can also be used for immunohistochemical studies with a dilution of 1:30 -1:50. For ELISA start diluting at 1: 5.000.

Presentation

1 ml lyophilized purified ascites (0.2 mg/ml).

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

Method of purification:

PEG6000 precipitation + DEAE cellulose chromatography

Literature

- Bashkov, G.V., et al., 1994, *Thrombos. Res.* 74, 321-334.

- Sakharov, D.V., et al., 1988, *Thrombos. Res.* 49, 481-488.

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Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com