

Goat anti-Human Urokinase, affinity purified Polyclonal Antibody

Catalog No.: PS075

Quantity: 0.5 mg

Specificity

Antibodies to human Urokinase are raised in goats which are numerously immunized with extensively purified native HMW-tcuPA and LMW-scuPA (mixture 50/50), isolated from human urine. Pooled antisera are passed over DEAE-cellulose to produce IgG-enriched fraction, which is further subjected to absorption with immobilized total human serum proteins in order to remove non-specific antibodies. The affinity purified antibody PS075 is obtained by binding to immobilized native human urokinase (antigen used for immunization), followed by elution with acidic buffer, neutralization, dialysis, dispensing and lyophilization.

The antibody binds to human HMW-scuPA (54 kDa), HMW-tsuPA (52 kDa) and LMW-scuPA (33 kDa) with high apparent affinity ($K_d = 0.1$ nM) completely inhibiting the ability of urokinase to activate plasminogen. Urokinase reaction with synthetic substrate S2444 is also 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.

Use

The antibody can be used for immunoblotting assays (Western, dot-blot). Immunosorbent with the antibody can be used for affinity purification of urokinase in one step from biological fluids. The antibody can be used for quantitative, specific and sensitive assay for urokinase in human fluids (RIA, ELISA) in combination with the inhibiting monoclonal MON5018 or the non-inhibiting monoclonal MON5033. It is very stable and can as such be used for conjugation with peroxidase, biotin, FITC, etc. It can also be used in immunohistochemistry on frozen and paraffin embedded tissue.

Instructions for use

Dilute for immunohistochemistry 1:50.

Dilute for ELISA for starting dilution 1:5000.

Optimal dilutions should be tested by serial dilution.

Presentation

Each vial contains at least 0.5 mg purified antibody (goat IgG), lyophilized from PBS with mannitol. Reconstitute with 1 ml distilled water and add preservative if preferred.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.



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