

**Anti-uPA (human, urokinase plasminogen activator)
 Mouse monoclonal antibody**

Subclass: IgG1

PRODUCT NO.

MON U-5

PRESENTATION

 Preparation: Protein-A purified
 Content: Available in 200 µL and 1 mL volumes, 1 mg/mL
 Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.14 M NaCl and 15 mM sodium azide
 Storage: In the dark at 4-8°C

ANTIGEN

Urokinase plasminogen activator (uPA) is a serine protease. It converts the abundant proenzyme plasminogen to active plasmin and plays a key role in cancer invasion and a variety of tissue remodelling processes such as wound healing, mammary gland involution and placental development (1-3). Elevated levels of uPA are associated with poor prognosis in many types of cancer (2-5).

IMMUNOGEN

Native human uPA

SPECIFICITY

MON U-5 is specific for human uPA. No reaction with human tissue plasminogen activator (tPA) is seen when tested by ELISA, immunoblotting and enzyme inhibition. No reaction with any other human plasma proteins is seen when tested by immunoblotting.

EPIOTOPE SPECIFICITY

MON U-5 binds to the B-chain of uPA

REACTIVITY

MON U-5 binds single and two-chain uPA, uPA/PAI-1 complex and uPA/uPAR complex (6,7). A reaction is seen with LMW-uPA but not with the amino terminal fragment (ATF). MON U-5 reacts with non-reduced uPA but not with reduced uPA in Western blotting. It inhibits the enzymatic activity of uPA in the fibrin plate assay and it inhibits the uPA mediated cleavage of uPAR. MON U-5 can be used on frozen sections in immunohistochemistry applications (8).

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

NSI-Ag 4/1

IMMUNIZATION

Female BALB/c mice immunized by intradermal injection

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes		5,7,9
Immunoblotting	Yes		
Immunohistochemistry	Yes	1/25	8

REFERENCES

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CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.

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