

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

Subclass: IgG1

PRODUCT NO.	MON U-12																
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 0.5 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-12 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.																
EPI TOPE SPECIFICITY	MON U-12 binds to the A-chain of uPA (6)																
REACTIVITY	MON U-12 binds single and two-chain uPA and uPA/uPAR complex. A reaction is seen with amino terminal fragment (ATF) but not with LMW uPA. MON U-12 reacts with non-reduced uPA but not with reduced uPA in Western blotting. MON U-12 inhibits the enzymatic activity of uPA and does not block the binding of uPA to uPAR. MON U-12 can be used on frozen sections in immunohistochemistry applications (7,8).																
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Method</th> <th style="width: 20%;">Usability</th> <th style="width: 30%;">Dilution guideline</th> <th style="width: 20%;">References</th> </tr> </thead> <tbody> <tr> <td>ELISA</td> <td style="text-align: center;">Yes</td> <td></td> <td style="text-align: center;">5</td> </tr> <tr> <td>Immunoblotting</td> <td style="text-align: center;">Yes</td> <td></td> <td></td> </tr> <tr> <td>Immunohistochemistry</td> <td style="text-align: center;">Yes</td> <td></td> <td style="text-align: center;">7,8</td> </tr> </tbody> </table>	Method	Usability	Dilution guideline	References	ELISA	Yes		5	Immunoblotting	Yes			Immunohistochemistry	Yes		7,8
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REFERENCES	<ol style="list-style-type: none"> 1. Danø K, Andreasen PA, Grøndahl-Hansen J, Kristensen P, Nielsen LS, Skriver L (1985) Plasminogen activators, tissue degradation, and cancer. <i>Adv Cancer Res</i> 44:139-266. 2. Andreasen PA, Kjøller L, Christensen L, Duffey MJ (1997) The urokinase plasminogen activator system in cancer metastasis. <i>Int J Cancer</i> 2:1-22. 3. Danø K, Behrendt N, Høyer-Hansen G, Johnsen M, Lund LR, Ploug M, Rømer J (2005) Plasminogen activation and cancer. <i>Thromb Haem</i> 93:676-681. 4. Harbeck N, Kates RE, Look MP (2002) Enhanced benefit from adjuvant chemotherapy in breast cancer patients classified high-risk according to urokinase-type plasminogen activator and plasminogen activator inhibitor type 1 (n=3424). <i>Cancer Res</i> 62:4617-22. 5. Grøndahl-Hansen J, Christensen IJ, Rosenquist C, Brønner, N., Mouridsen, H.T., Danø. K. & Blichert-Toft, M (1993) High levels of urokinase-type plasminogen activator and its inhibitor PAI-1 in cytosolic extracts of breast carcinomas are associated with poor prognosis. <i>Cancer Res</i> 53:2513-2521. 6. Kalltoft K, Nielsen LS, Zeuthen J, Danø K (1982) Monoclonal antibody that specifically inhibits a human Mr 52,000 plasminogen-activating enzyme. <i>Proc Natl Acad Sci USA</i> 79:3720-3723. 7. Grøndahl-Hansen J, Ralfkiær E, Nielsen LS, Kristensen P, Frentz G, Danø K (1987) Immunohistochemical localization of urokinase and tissue type plasminogen activators in psoriatic skin. <i>J Invest Dermatol</i> 88:28-32. 8. Grøndahl-Hansen J, Ralfkiær E, Kirkeby LT, Kristensen P, Lund LR, Danø K (1991) Localization of urokinase type
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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.