

**Anti-tPA (human, tissue plasminogen activator)
 Mouse monoclonal antibody**

Subclass: IgG1

PRODUCT NO.	MON T-1
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	Tissue plasminogen activator (tPA) is a serine protease which converts the abundant proenzyme plasminogen to active plasmin. It plays a key role in thrombolysis (1) and several neurobiological processes (2).
IMMUNOGEN	Native human tPA from Bowes melanoma cells
SPECIFICITY	MON T-1 is specific for human tPA. No reaction is seen with human urokinase plasminogen activator (uPA) when tested by ELISA, immunoblotting and enzyme inhibition and no reaction with any other human plasma proteins is seen when tested by immunoblotting.
EPI TOPE SPECIFICITY	MON T-1 binds to the A-chain of tPA (3)
REACTIVITY	MON T-1 reacts with single- and two-chain tPA in ELISA, Western blotting and immunohistochemistry, and can also be used in immunopurification. It inhibits the enzymatic activity of tPA. For immunohistochemistry applications MON T-1 can be used on frozen sections.
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum
FUSION PARTNER	NCI-Ag 4/1
IMMUNIZATION	Female BALB/c mice immunized by intradermal injection

APPLICATION	Method	Usability	Dilution guideline	References
	ELISA	Yes		4
	Immunoblotting	Yes		
	Immunohistochemistry	Yes		5,6

REFERENCES	<ol style="list-style-type: none"> Collen D, Lijnen HR (2005) Thrombolytic agents. <i>Thromb Haemost</i> 93:627-630. Melchior JP, Strickland S (2005) Tissue plasminogen activator in central nervous system physiology and pathology. <i>Thromb Haemost</i> 93:655-60. Nielsen LS, Hansen JG, Andreasen PA, Skriver L, Danø K, Zeuthen J (1983) Monoclonal antibody to human 66 000 molecular weight plasminogen activator from melanoma cells. Specific enzyme inhibition and one step affinity purification. <i>EMBO J</i> 2:115-119. Lund LR, Georg B, Nielsen LS, Mayer M, Danø K, Andreasen PA (1988) Plasminogen activator inhibitor type 1: Cell specific and differentiation-induced expression and regulation in human cell lines, as determined by enzyme linked immunosorbent assay. <i>Mol Cell Endocrinol</i> 60:43-53. Kristensen P, Larsson LI, Nielsen LS, Grøndahl-Hansen J, Andreasen PA, Danø K (1984) Human endothelial cells contain one type of plasminogen activator. <i>FEBS Lett</i> 168:33-37. 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.
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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.