

Mouse Monoclonal Antibody to Human Plasminogen Activator, Urokinase

Cat. No. CAB11591MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Plasminogen Activator, Urokinase
Species	Human
Source	Mouse
Antigen Description	Plasminogen activator, urokinase, also known as PLAU and uPA, is a serine protease involved in degradation of the extracellular matrix and possibly tumor cell migration and proliferation. The human PLAU is initially synthesized as 431 amino acid precursor with a N-terminal signal peptide (20 residues). The single chain molecule is processed into a disulfide-linked two-chain molecule of different molecular weights. Two forms of the A chain exist, starting at Ser21 (the long form) and Lys156 (the short form). The long and short A chains are unique to the high and low molecular weight forms, respectively. The long A chain contains an EGF-like domain, responsible for binding of the PLAU receptor. The B chain corresponds to the catalytic domain. PLAU is a potent marker of invasion and metastasis in a variety of human cancers associated with breast, stomach, colon, bladder, ovary, brain and endometrium. A specific polymorphism in PLAU gene is implicated in late-onset Alzheimer disease and also with decreased affinity for fibrin-binding.
Specificity	Human uPA / PLAU. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

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Immunogen	Recombinant human uPA protein
Isotype	MouseIgG1
Clone	2B3H5H12
Applications	Western blot
Dilution	This antibody can be used at 1-2ug/mL with the appropriate secondary reagents to detect A chain and full-length of uPA in WB. Using a DAB detection system, the detection limit for uPA is approximately 2ng/lane and 100ng/lane under non-reducing conditions and reducing conditions.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant human uPA / PLAU. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	PLAU plasminogen activator, urokinase [Homo sapiens]
Official Symbol	PLAU

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Synonyms	PLAU; plasminogen activator, urokinase; urokinase-type plasminogen activator; UPA; URK; U-plasminogen activator; plasminogen activator, urinary; ATF; QPD; u-PA; BDPLT5;
Gene ID	5328
mRNA Refseq	NM_001145031
Protein Refseq	NP_001138503
MIM	191840
UniProt ID	P00749
Chromosome Location	10q24
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; DNA damage response (only ATM dependent), organism-specific biosystem; Dissolution of Fibrin Clot, organism-specific biosystem;
Function	peptidase activity; protein binding; serine-type endopeptidase activity;