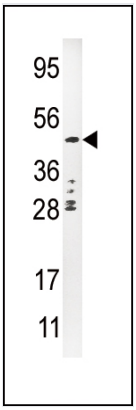
Urokinase (PLAU) Antibody – Rabbit Polyclonal

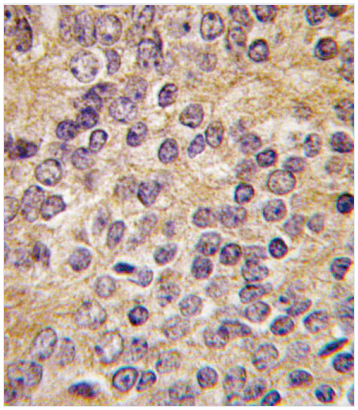
PRODUCT OVERVIEW

Product Name	Urokinase (PLAU), Polyclonal Antibody
Full Product Name	Urokinase (PLAU) Antibody (C-term)
Product Gene Name	anti-PLAU antibody
Product Synonym Names	Urokinase-type plasminogen activator; U-plasminogen activator; uPA; Urokinase-type plasminogen activator long chain A; Urokinase-type plasminogen activator short chain A; Urokinase-type plasminogen activator chain B; PLAU
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 2 (lot specific)
Specificity	This Urokinase (PLAU) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 396-426 amino acids from the C-terminal region of human Urokinase (PLAU).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	Urokinase (PLAU) peptide (MBS9227604) is used for blocking the activity of Urokinase (PLAU) antibody (MBS9210726)
Molecular Weight	48507
Immunogen Sequence Positions	396-426
OMIM	191840
3D Structure	ModBase 3D Structure for P00749
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-PLAU antibody	Cancer; Cardiovascular; Metabolism; Neuroscience; Signal transduction
Applications Tested/Suitable for anti-PLAU antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FC/FACS)
Application Notes for anti-PLAU antibody	WB~~1:1000
Related Product Information for anti-PLAU antibody	PLAU, a member of the peptidase family S1, is a potent plasminogen activator and is clinically used for therapy of thrombolytic disorders. PLAU specifically cleaves the Arg-|-Val bond in plasminogen to form plasmin. The protein is found in high and low molecular mass forms. Each consists of two chains, A and B. The high molecular mass form contains a long chain A. Cleavage occurs after residue 155 in the low molecular mass form to yield a short A1 chain. The protein is used in Pulmonary Embolism (PE) to initiates fibrinolysis. Structurally, PLAU contains 1 EGF-like domain and 1 kringle domain.

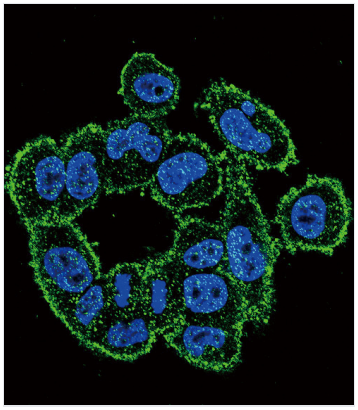
Product References and Citations for anti-PLAU antibody	Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Sperl, S., et al., Proc. Natl. Acad. Sci. U.S.A. 97(10):5113-5118 (2000). Turkmen, B., et al., Electrophoresis 18(5):686-689 (1997). Conne, B., et al., Thromb. Haemost. 77(3):434-435 (1997). Yoshimoto, M., et al., Biochim. Biophys. Acta 1293(1):83-89 (1996).
Other Notes	Small volumes of anti-PLAU antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PLAU purchase	MBS9210726 is an antibody targeting PLAU. Also known as Urokinase (PLAU) Antibody (C-term). Reactive in Human. Host: Rabbit.



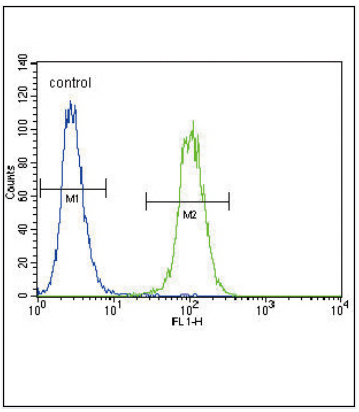
Western Blot (WB) of anti-PLAU antibody
Western blot analysis of anti-PLAU Pab in CEM cell line lysate (35ug/lane). PLAU(arrow) was detected using the purified Pab



Immunohistochemistry (IHC) of anti-PLAU antibody
Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with PLAU antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-PLAU antibody
Confocal immunofluorescent analysis of Urokinase (PLAU) Antibody (C-term) with A2058 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Flow Cytometry (FC/FACS) of anti-PLAU antibody
Urokinase (PLAU) Antibody (C-term) flow cytometric analysis of A2058 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLAU. It may not necessarily be applicable to this product.

NCBI GI #	222537759
NCBI GeneID	5328
NCBI Accession #	NP_001138503.1
NCBI Related Accession #	NP_002649.1
UniProt Primary Accession #	P00749

UniProt Secondary Accession #	Q15844; Q16618; Q53XS3; Q5SWW9; Q969W6; B4DPZ2
UniProt Related Accession #	P00749
GenBank Nucleotide #	NM_001145031.1
NCBI Official Full Name	urokinase-type plasminogen activator isoform 2
NCBI Official Synonym Full Names	plasminogen activator, urokinase
NCBI Official Symbol	PLAU
NCBI Official Synonym Symbols	ATF; QPD; UPA; URK; u-PA; BDPLT5
UniProt Protein Name	Urokinase-type plasminogen activator
Protein Family	Urokinase-type plasminogen activator
UniProt Gene Name	PLAU
UniProt Synonym Gene Names	U-plasminogen activator; uPA
UniProt Entry Name	UROK_HUMAN
NCBI Protein Information	urokinase-type plasminogen activator
NCBI Summary for PLAU	This gene encodes a serine protease involved in degradation of the extracellular matrix and possibly tumor cell migration and proliferation. A specific polymorphism in this gene may be associated with late-onset Alzheimer's disease and also with decreased affinity for fibrin-binding. This protein converts plasminogen to plasmin by specific cleavage of an Arg-Val bond in plasminogen. Plasmin in turn cleaves this protein at a Lys-Ile bond to form a two-chain derivative in which a single disulfide bond connects the amino-terminal A-chain to the catalytically active, carboxy-terminal B-chain. This two-chain derivative is also called HMW-uPA (high molecular weight uPA). HMW-uPA can be further processed into LMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chain A (A1) and an amino-terminal fragment. LMW-uPA is proteolytically active but does not bind to the uPA receptor. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009]
UniProt Comments for PLAU	uPA: Specifically cleave the zymogen plasminogen to form the active enzyme plasmin. Defects in PLAU are the cause of Quebec platelet disorder (QPD). QPD is an autosomal dominant bleeding disorder due to a gain-of-function defect in fibrinolysis. Although affected individuals do not exhibit systemic fibrinolysis, they show delayed onset bleeding after challenge, such as surgery. The hallmark of the disorder is markedly increased PLAU levels within platelets, which causes intraplatelet plasmin generation and secondary degradation of alpha-granule proteins. Belongs to the peptidase S1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted; Protease; Motility/polarity/chemotaxis; EC 3.4.21.73 Chromosomal Location of Human Ortholog: 10q22.2 Cellular Component: extracellular space; cell surface; focal adhesion; plasma membrane; extracellular region Molecular Function: protein binding; serine-type endopeptidase activity Biological Process: fibrinolysis; regulation of cell adhesion mediated by integrin; regulation of smooth muscle cell migration; smooth muscle cell migration; response to hypoxia; regulation of receptor activity; chemotaxis; signal transduction; proteolysis; blood coagulation; regulation of cell proliferation Disease: Quebec Platelet Disorder; Alzheimer Disease
Research Articles on PLAU	**1.** The predominance of uPA over PAI-1 in the gastric mucosa vessels and epithelial cells can play a role in the development of gastric mucosa bleeding.
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