

Datasheet for ABIN5692920  
**anti-PLAU antibody (AA 179-431)**



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## Overview

Quantity:	100 µg
Target:	PLAU
Binding Specificity:	AA 179-431
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLAU antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

Purpose:	Anti-PLAU Antibody Picoband®
Immunogen:	E. coli-derived human PLAU recombinant protein (Position: I179-L431).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PLAU Antibody Picoband® (ABIN5692920). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

## Target Details

Target:	PLAU
Alternative Name:	PLAU ( <a href="#">PLAU Products</a> )
Background:	<p>Synonyms: 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</p> <p>Tissue Specificity: Expressed in the prostate gland and prostate cancers.</p> <p>Background: Urokinase, also known as urokinase-type plasminogen activator (uPA), is a serine protease present in humans and other animals. This gene encodes a secreted serine protease that converts plasminogen to plasmin. The encoded preproprotein is proteolytically processed to generate A and B polypeptide chains. These chains associate via a single disulfide bond to form the catalytically inactive high molecular weight urokinase-type plasminogen activator (HMW-uPA). HMW-uPA can be further processed into the catalytically active low molecular weight urokinase-type plasminogen activator (LMW-uPA). This low molecular weight form does not bind to the urokinase-type plasminogen activator receptor. Mutations in this gene may be associated with Quebec platelet disorder and late-onset Alzheimer's disease. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.</p>
Molecular Weight:	48 kDa
Gene ID:	5328
UniProt:	<a href="#">P00749</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Autophagy</a> , <a href="#">Smooth Muscle Cell Migration</a>

## Application Details

Application Notes:	<p>Western blot, 0.1-0.5 µg/mL</p> <p>ELISA, 0.1-0.5 µg/mL</p> <p>1. Degryse, Bernard (1 June 2011). "The urokinase receptor system as strategic therapeutic target: challenges for the 21st century". <i>Current Pharmaceutical Design</i>. 17 (19): 1872-1873. 2. Tang, Linlin, Han, Xiuzhen (March 2013). "The urokinase plasminogen activator system in breast cancer invasion and metastasis". <i>Biomedicine &amp; Pharmacotherapy</i>. 67 (2): 179-182.</p>
Restrictions:	For Research Use only

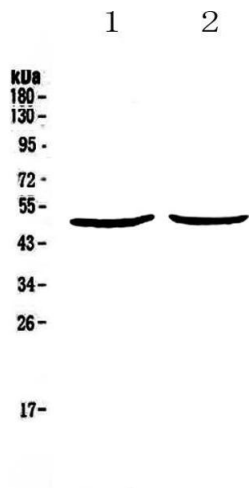
## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg NaN <sub>3</sub> .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

## Publications

Product cited in:	Wu, Li, Liu, Ning, Li: "Effects of Guiyuanfang and autologous transplantation of bone marrow stem cells on rats with liver fibrosis." in: <b>World journal of gastroenterology</b> , Vol. 11, Issue 8, pp. 1155-60, (2005) ( <a href="#">PubMed</a> ).
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## Images



### Western Blotting

**Image 1.** Western blot analysis of PLAU using anti-PLAU antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50µg of sample under reducing conditions. Lane 1: rat pancreas tissue lysates, Lane 2: mouse pancreas tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PLAU antigen affinity purified polyclonal antibody (Catalog #

) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PLAU at approximately 48KD. The expected band size for PLAU is at 48KD.