

Rabbit PLAU Polyclonal Antibody | anti-PLAU antibody

PLAU Antibody

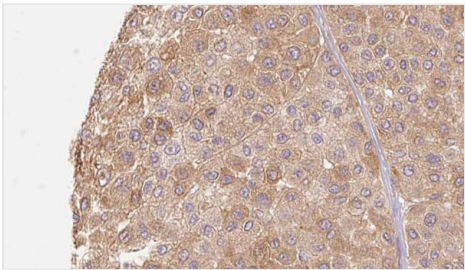
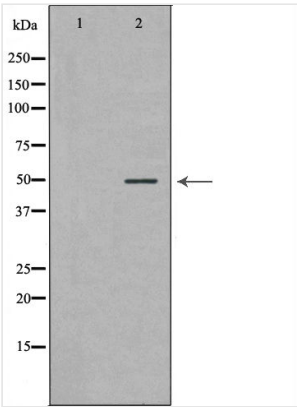
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326659	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PLAU; Polyclonal Antibody; PLAU Antibody; ATF; ATF uPA; BDPLT5; Plasminogen activator; Plasminogen activator urinary; Plasminogen activator urokinase; QPD; u PA; U plasminogen activator; u-PA; U-plasminogen activator; uPA; URK; UROK_HUMAN; Urokinase plasminogen activator; Urokinase type plasminogen activator; Urokinase type plasminogen activator precursor; Urokinase-type plasminogen activator chain B; anti-PLAU antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PLAU antibody detects endogenous levels of total PLAU
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	414
Applicable Applications for anti-PLAU antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PLAU
Subcellular Location	Secreted.
Tissue Specificity	Expressed in the prostate gland and prostate cancers.
Predicted Cross Reactivity	Horse, Rabbit
Similarity	Horse (82%), Rabbit (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326659 at 1/100 staining Human Melanoma tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of HeLa, using PLAU antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PLAU antibody	Description: The human urokinase-type plasminogen activator receptor (uPAR) is a 55-65 kDa, highly glycosylated, GPI-anchored cell surface receptor (the deglycosylated protein is 35 kDa) (1-3). It is a central player in the plasminogen activation pathway. uPAR binds with high affinity to a serine protease urokinase-type plasminogen activator (uPA) and converts plasminogen to its active form plasmin in a spatially restricted manner on the cell surface (4). Plasmin further carries out the activation of uPA, which is inhibited by serpins, such as plasminogen activator inhibitors (5). Therefore, uPAR plays a key role in regulating extracellular proteolysis. In addition, uPAR plays an important role in regulating cell proliferation, adhesion, and mobility (6, 7). Research studies have shown that overexpression of uPAR is found in various cancer cells and tissues (8, 9). Function: Specifically cleaves the zymogen plasminogen to form the active enzyme plasmin. Subunit Structure: 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 which is cleaved to yield a short chain A. Forms heterodimer with SERPINA5. Binds LRP1B; binding is followed by internalization and degradation. Interacts with MRC2. Interacts with PLAUR. Post-translational Modifications: Phosphorylation of Ser-158 and Ser-323 abolishes proadhesive ability but does not interfere with receptor binding. Similarity: Belongs to the peptidase S1 family.
References	Liu Y, Zheng J, Zhang Y, Wang Z, Yang Y, Bai M, Dai Y; Journal: Neurochem Res. Fucoxanthin Activates Apoptosis via Inhibition of PI3K/Akt/mTOR Pathway and Suppresses Invasion and Migration by Restriction of p38-MMP-2/9 Pathway in Human Glioblastoma Cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	222537759
NCBI GeneID	5328
NCBI Accession #	NP_001138503.1
NCBI GenBank Nucleotide #	NM_001145031.2
UniProt Accession #	P00749; Q15844; Q16618; Q53XS3; Q5SWW9; Q969W6; B4DPZ2
Molecular Weight	Observed: 49 kDa Predicted: 49 kDa
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

NCBI Protein Information	urokinase-type plasminogen activator
UniProt Protein Name	Urokinase-type plasminogen activator
UniProt Gene Name	PLAU
UniProt Synonym Gene Names	U-plasminogen activator; uPA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/plau-antibody-immunohistochemistry-western-blot-elisa/326659>