DATASHEET

Plasminogen Mouse Monoclonal Antibody(ARA486)

CAT. NO. ARA5798

KEY FEATURES

Target	Plasminogen	**Source / Host**	Mouse
Reactivity	Human	**Clonality**	Monoclonal
Applications	WB,IHC,IF/ICC,ELISA	**Conjugation**	Unconjugated
Isotype	IgG1	**Storage**	at -20°C

BACKGROUND

Plasminogen is a secreted blood zymogen that is activated by proteolysis and converted to plasmin and angiostatin. Plasminogen plays an important role in fibrinolysis as well as wound healing, cell migration, tissue modeling and angiogenesis. Plasminogen is synthesized in the liver, and it circulates in the blood, with a half-life of 2.2 days. Plasminogen is the precursor of plasmin, which lyses fibrin clots to fibrin degradation products (FDP) and D-dimer; the conversion to active protease is mediated by tissue-type (tPA) and urokinase-type (uPA) plasminogen activators. Defects in plasminogen are likely a cause of thrombophilia and ligneous conjunctivitis.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1,000 - 1:4,000
IHC	1:50 - 1:500
IF/ICC	1:200 - 1:1,600
ELISA	Assay-dependent

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Mouse monoclonal antibody to Plasminogen for WB, IHC, IF/ICC and ELISA.
Specificity	Recognizes endogenous levels of Plasminogen protein
Antibody Type	Primary antibody
Immunogen	Recombinant human PLG protein (amino acids 461-810) expressed in E. coli with 6*His tag.
Molecular Weight	Predicted: 91 kDa; Observed: 105 kDa
Purification	Protein G purification
Isotype	IgG1
Form/Buffer	Liquid in PBS (pH 7.3) with 0.02% sodium azide and 50% glycerol.
Alternative Names	PLG, Angiostatin, Plasmin heavy chain A short form, EC:3.4.21.7
Gene Symbol	PLG
Entrez Gene	5340 (Human)
SwissProt	P00747 (Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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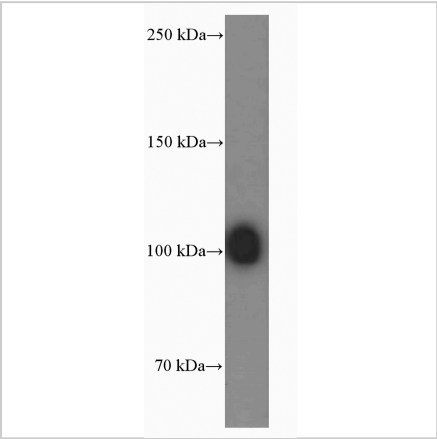
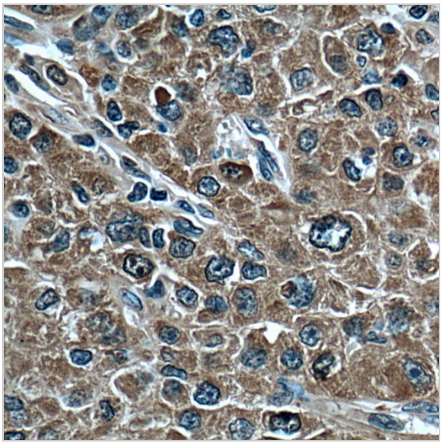
DATA

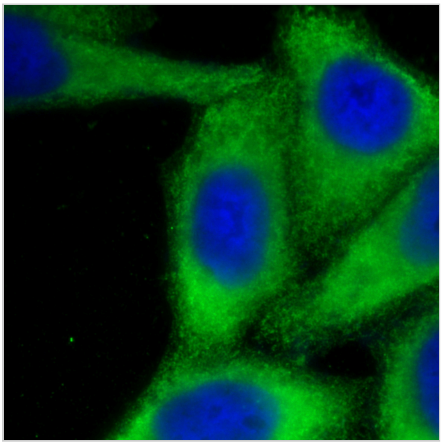


Western blot analysis of human plasma with Plasminogen Mouse Monoclonal Antibody(ARA486) at 1:2,000 dilution. The membrane was incubated at room temperature for 1.5 hours.

Predicted band size: 91 kDa
Observed band size: 105 kDa



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue with Plasminogen Mouse Monoclonal Antibody(ARA486) at 1:200 dilution (40x lens). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of -20°C ethanol-fixed HepG2 cells with Plasminogen Mouse Monoclonal Antibody(ARA486) at 1:800 dilution and AREX® Fluor 488-conjugated Goat Anti-Mouse IgG (H+L). Nuclear DNA was labelled with DAPI (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com