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# PLG Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7313a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | P00747 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB18475 |
| **Calculated MW** | 90569 |
| **Antigen Region** | 150-175 |

## Additional Information

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| **Gene ID** | 5340 |
| **Other Names** | Plasminogen, Plasmin heavy chain A, Activation peptide, Angiostatin, Plasmin heavy chain A, short form, Plasmin light chain B, PLG |
| **Target/Specificity** | This PLG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 150-175 amino acids from the N-terminal region of human PLG. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **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. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | PLG Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | PLG ( HGNC:9071) |
| **Function** | [Plasmin]: Protease which primary function is to degrade fibrin, the main component of blood clots (PubMed:6094526, PubMed:6919539). Also cleaves other components of blood clots like thrombospondin-1/THBS1 and von |

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| | Willebrand factor (VWF) (PubMed:24449821, PubMed:7679575). Can also directly and/or through the activation of other proteases degrade the various components of the extracellular matrix including collagen, fibronectin and laminin (PubMed:14699093, PubMed:28849762, PubMed:9171346). Thereby, regulates a variety of biological processes including embryonic development, tissue remodeling, and inflammation (PubMed:9171346). In ovulation, weakens the walls of the Graafian follicle (By similarity). In vitro, it is also able to cleave several complement zymogens, such as C1, C4 and C5 (PubMed:6447255). |
| **Cellular Location** | [Plasmin]: Secreted. Note=Locates to the cell surface where it is proteolytically cleaved to produce the active plasmin (PubMed:14699093). Interaction with HRG tethers it to the cell surface (PubMed:15613921, PubMed:19712047, PubMed:9102401) |
| **Tissue Location** | Present in plasma and many other extracellular fluids. It is synthesized in the liver |

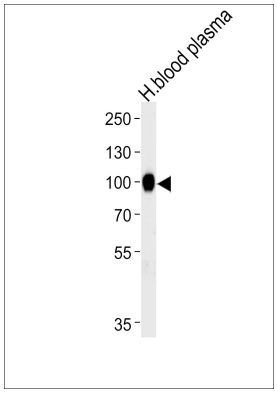
## Background

PLG is a circulating zymogen that is converted to the active enzyme plasmin by cleavage of the peptide bond between arg560 and val561, which is mediated by urokinase and tissue plasminogen activator. The main function of this protein is to dissolve fibrin clots. The protein, like trypsin, belongs to the family of serine proteinases.

## References


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Passero,C.J., Mueller,G.M. J. Biol. Chem. 283 (52), 36586-36591 (2008)
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## Images




Western blot analysis of lysate from human blood plasma tissue lysate, using PLG Antibody (N-term)(Cat. #AP7313a). AP7313a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.