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Plasminogen Polyclonal Antibody

Catalog # AP71969

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P00747
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90569

Additional Information

Gene ID	5340
Other Names	PLG; Plasminogen
Dilution	WB~~1:1000 IHC-P~~IHC-p: 100-300.Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

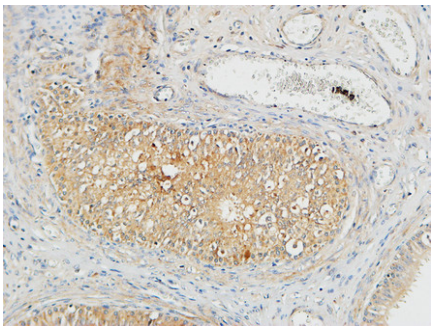
Name	PLG (HGNC:9071)
Function	[Plasmin]: Protease which primary function is to degrade fibrin, the main component of blood clots (PubMed:6094526, PubMed:6919539). Also cleaves other components of blood clots like thrombospondin-1/THBS1 and von Willebrand factor (VWF) (PubMed:24449821, PubMed:7679575). 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

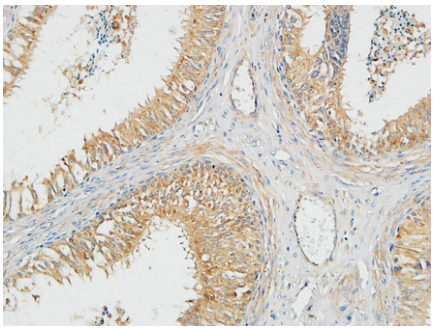
Background

Plasmin dissolves the fibrin of blood clots and acts as a proteolytic factor in a variety of other processes including embryonic development, tissue remodeling, tumor invasion, and inflammation. In ovulation, weakens the walls of the Graafian follicle. It activates the urokinase-type plasminogen activator, collagenases and several complement zymogens, such as C1 and C5. Cleavage of fibronectin and laminin leads to cell detachment and apoptosis. Also cleaves fibrin, thrombospondin and von Willebrand factor. Its role in tissue remodeling and tumor invasion may be modulated by CSPG4. Binds to cells.

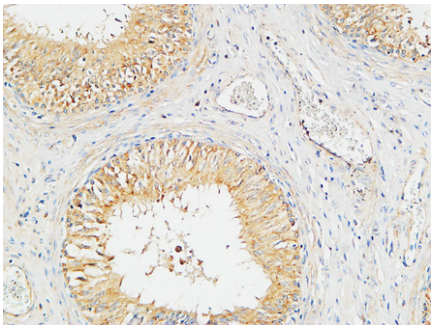
Images



Immunohistochemical analysis of paraffin-embedded Human testis. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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