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Rabbit Anti-Plasminogen/AP Conjugated antibody

SL1828R-AP

Product Name	Anti-Plasminogen/AP
Chinese Name	碱性磷酸酶（AP）标记的纤维蛋白溶酶原抗体
Alias	Plasminogen; Angiostatin; DKFZp779M0222; Microplasmin; Plasmin; Plasmin heavy chain A; PLG; PLMN_HUMAN.
Research Area	Cardiovascular
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Dog,Pig,Cow) WB=1000-10000,IHC-P=1:100-500,IHC-F=1:100-500,ELISA=1:500-5000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	53/87kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PLG
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: The protein encoded by this gene is a secreted blood zymogen that is activated by proteolysis and converted to plasmin and angiostatin. Plasmin dissolves fibrin in blood clots and is an important protease in many other cellular processes while angiostatin inhibits angiogenesis. Defects in this gene are likely a cause of thrombophilia and ligneous conjunctivitis. Two transcript

variants encoding different isoforms have been found for this gene.[provided by RefSeq, Dec 2009]

Function:

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.

Subunit:

Interacts with CSPG4 and AMOT. Interacts (via the Kringle domains) with HRG; the interaction tethers PLG to the cell surface and enhances its activation.

Subcellular Location:

Secreted. Note=Locates to the cell surface where it is proteolytically cleaved to produce the active plasmin. Interaction with HRG tethers it to the cell surface.

Post-translational modifications:

In the presence of the inhibitor, the activation involves only cleavage after Arg-580, yielding two chains held together by two disulfide bonds. In the absence of the inhibitor, the activation involves additionally the removal of the activation peptide.

Similarity:

Belongs to the peptidase S1 family. Plasminogen subfamily.
Contains 5 kringle domains.
Contains 1 PAN domain.
Contains 1 peptidase S1 domain.

Database links:

[Entrez Gene: 5340](#) Human

[Entrez Gene: 18815](#) Mouse

[Entrez Gene: 85253](#) Rat

[Omim: 173350](#) Human



[SwissProt: P00747](#) Human

[SwissProt: P20918](#) Mouse

[SwissProt: Q01177](#) Rat

[Unigene: 143436](#) Human

[Unigene: 971](#) Mouse

[Unigene: 20178](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.