

产品名称: Cleaved-Thrombin APII (R327) Rabbit Polyclonal Antibody
产品货号: APRab09032



产品概述 (Summary)

产品名称 (Production Name)	Cleaved-Thrombin APII (R327) Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	F2
别名 (Alternative Names)	F2; Prothrombin; Coagulation factor II
基因 ID (Gene ID)	2147.0
蛋白 ID (SwissProt ID)	P00734.The antiserum was produced against synthesized peptide derived from human THRB. AA range:278-327

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	19kDa

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研究背景 (Background)

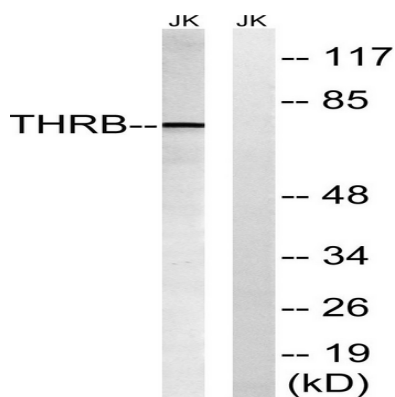
Coagulation factor II is proteolytically cleaved to form thrombin in the first step of the coagulation cascade which ultimately results in the stemming of blood loss. F2 also plays a role in maintaining vascular integrity during development and postnatal life. Peptides derived from the C-terminus of this protein have antimicrobial activity against E. coli and P. aeruginosa. Mutations in F2 lead to various forms of thrombosis and dysprothrombinemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015], catalytic activity: Selective cleavage of Arg-|-Gly bonds in fibrinogen to form fibrin and release fibrinopeptides A and B., disease: Defects in F2 are the cause of various forms of dysprothrombinemia [MIM:176930]., disease: Genetic variations in F2 may be a cause of susceptibility to ischemic stroke [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors., function: Thrombin, which cleaves bonds after Arg and Lys, converts fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Functions in blood homeostasis, inflammation and wound healing., miscellaneous: It is not known whether 1 or 2 smaller activation peptides, with additional cleavage after Arg-314, are released in natural blood clotting., miscellaneous: Prothrombin is activated on the surface of a phospholipid membrane that binds the amino end of prothrombin and factors Va and Xa in Ca-dependent interactions; factor Xa removes the activation peptide and cleaves the remaining part into light and heavy chains. The activation process starts slowly because factor V itself has to be activated by the initial, small amounts of thrombin., miscellaneous: The cleavage after Arg-198, observed in vitro, does not occur in plasma., miscellaneous: Thrombin can itself cleave the N-terminal fragment (fragment 1) of the prothrombin, prior to its activation by factor Xa., online information: Thrombin entry, pharmaceutical: The peptide TP508 also known as Chrysalin (Orthologic) could be used to accelerate repair of both soft and hard tissues., PTM: The gamma-carboxyglutamyl residues, which bind calcium ions, result from the carboxylation of glutamyl residues by a microsomal enzyme, the vitamin K-dependent carboxylase. The modified residues are necessary for the calcium-dependent interaction with a negatively charged phospholipid surface, which is essential for the conversion of prothrombin to thrombin., similarity: Belongs to the peptidase S1 family., similarity: Contains 1 Gla (gamma-carboxy-glutamate) domain., similarity: Contains 1 peptidase S1 domain., similarity: Contains 2 kringle domains., tissue specificity: Expressed by the liver and secreted in plasma.,

研究领域 (Research Area)

Neuroactive ligand-receptor interaction; Complement and coagulation cascades; Regulates Actin and Cytoskeleton;

图片 (Image Data)

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Antibody
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Western blot analysis of lysates from Jurkat cells, treated with etoposide 25uM 24H, using THRB (AP2,Cleaved-Arg327) Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Cleaved-Thrombin APII (R327) Polyclonal Antibody

注意事项 (Note)

For research use only .