

**产品名称: Cleaved-Factor VII LC (R212) Rabbit Polyclonal Antibody**  
**产品货号: APRab08987**



## 产品概述 (Summary)

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| 产品名称 (Production Name) | Cleaved-Factor VII LC (R212) Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                              |
| 宿主 (Host)              | Rabbit                                                  |
| 应用 (Application)       | WB,IHC,ICC/IF,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)        | F7                                                                                                     |
| 别名 (Alternative Names) | F7; Coagulation factor VII; Proconvertin; Serum prothrombin conversion accelerator; SPCA; Eptacog alfa |
| 基因 ID (Gene ID)        | 2155.0                                                                                                 |
| 蛋白 ID (SwissProt ID)   | P08709.The antiserum was produced against synthesized peptide derived from human FA7. AA range:171-220 |

## 产品应用 (Application)

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000 |
| 蛋白分子量 (Molecular Weight) | 17kDa                                                                   |

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## 研究背景 (Background)

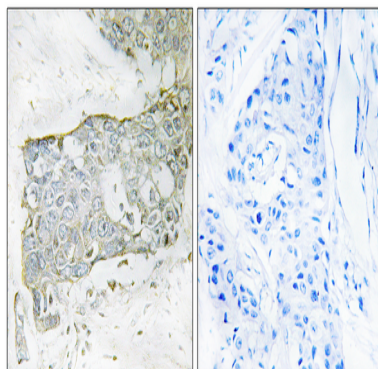
This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Defects in this gene can cause coagulopathy. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing to generate mature polypeptides. [provided by RefSeq, Aug 2015],catalytic activity:Selective cleavage of Arg-Ile bond in factor X to form factor Xa.,disease:Defects in F7 are the cause of factor VII deficiency [MIM:227500]. Factor VII deficiency is a rare hereditary hemorrhagic disease. The clinical picture can be very severe, with the early occurrence of intracerebral hemorrhages or hemarthroses, or, in contrast, moderate with cutaneous-mucosal hemorrhages (epistaxis, menorrhagia) or hemorrhages provoked by a surgical intervention. Numerous subjects are completely asymptomatic despite a very low F7 level.,function:Initiates the extrinsic pathway of blood coagulation. Serine protease that circulates in the blood in a zymogen form. Factor VII is converted to factor VIIa by factor Xa, factor XIIa, factor IXa, or thrombin by minor proteolysis. In the presence of tissue factor and calcium ions, factor VIIa then converts factor X to factor Xa by limited proteolysis. Factor VIIa will also convert factor IX to factor IXa in the presence of tissue factor and calcium.,online information:Factor VII entry,online information:The Singapore human mutation and polymorphism database,pharmaceutical:Available under the names Niastase or Novoseven (Novo Nordisk). Used for the treatment of bleeding episodes in hemophilia A or B patients with antibodies to coagulation factors VIII or IX.,polymorphism:Individuals with the Q allele (Gln-413) seems to have a decreased susceptibility to myocardial infarction.,PTM:The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.,PTM:The vitamin K-dependent, enzymatic carboxylation of some glutamate residues allows the modified protein to bind calcium.,similarity:Belongs to the peptidase S1 family.,similarity:Contains 1 Gla (gamma-carboxy-glutamate) domain.,similarity:Contains 1 peptidase S1 domain.,similarity:Contains 2 EGF-like domains.,subunit:Heterodimer of a light chain and a heavy chain linked by a disulfide bond.,tissue specificity:Plasma.,

## 研究领域 (Research Area)

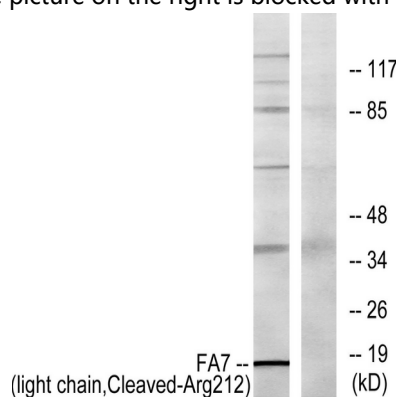
Complement and coagulation cascades;

## 图片 (Image Data)

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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using FA7 (light chain,Cleaved-Arg212) Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, treated with eto 25uM 24h, using FA7 (light chain,Cleaved-Arg212) Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Cleaved-Factor VII LC (R212) Polyclonal Antibody

## 注意事项 (Note)

For research use only .