

Product Name: Cleaved-Factor VII LC (R212) Rabbit Polyclonal Antibody Catalog #: APRab08987

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,IHC,ICC/IF,ELISA
Reactivity Human,Rat,Mouse
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000

Molecular Weight 17kDa

Antigen Information

Alternative Names

Gene Name F7

F7; Coagulation factor VII; Proconvertin; Serum prothrombin conversion accelerator; SPCA;

Eptacog alfa

 Gene ID
 2155.0

 SwissProt ID
 P08709

The antiserum was produced against synthesized peptide derived from human FA7. AA Immunogen

range:171-220

Background

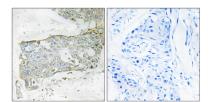


This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor 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 Arq-|-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 cutaneousmucosal 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 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 Kdependent, 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.,

Research Area

Complement and coagulation cascades;

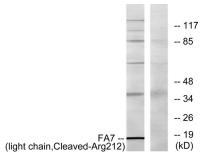
Image Data



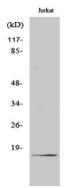
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using FA7 (light chain,Cleaved-Arg212) Antibody. The picture on the right is blocked with the synthesized peptide.

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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