Best Tools for immunology Research

Cleaved-Factor Xa activated HC (I235) Polyclonal Antibody

Catalog No :	YC0083
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	FA10
Fields :	>>Complement and coagulation cascades
Gene Name :	F10
Protein Name :	Coagulation factor X
Human Gene Id :	2159
Human Swiss Prot No :	P00742
Mouse Gene Id :	14058
Mouse Swiss Prot No :	O88947
Rat Gene Id :	29243
Rat Swiss Prot No :	Q63207
Immunogen :	The antiserum was produced against synthesized peptide derived from human FA10. AA range:216-265
Specificity :	Cleaved-Factor Xa activated HC (I235) Polyclonal Antibody detects endogenous levels of fragment of activated Factor Xa activated HC protein resulting from cleavage adjacent to I235.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 30kD

Cell Pathway : Complement and coagulation cascades;

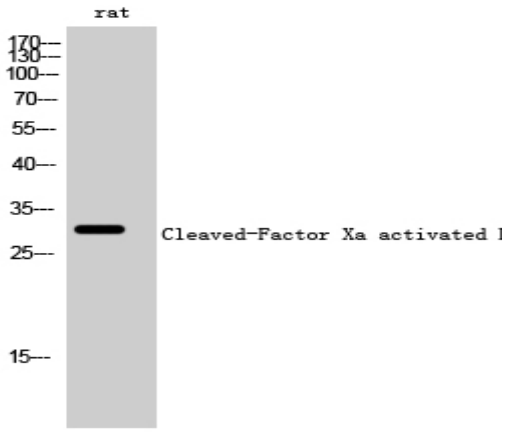
Background : This gene encodes the vitamin K-dependent coagulation factor X of the blood coagulation cascade. This factor undergoes multiple processing steps before its preproprotein is converted to a mature two-chain form by the excision of the tripeptide RKR. Two chains of the factor are held together by 1 or more disulfide bonds; the light chain contains 2 EGF-like domains, while the heavy chain contains the catalytic domain which is structurally homologous to those of the other hemostatic serine proteases. The mature factor is activated by the cleavage of the activation peptide by factor IXa (in the intrisic pathway), or by factor VIIa (in the extrinsic pathway). The activated factor then converts prothrombin to thrombin in the presence of factor Va, Ca+2, and phospholipid during blood clotting. Mutations of this gene result in factor X deficiency, a hemorrhagic condition of variable severity. Alternative sp

Function : catalytic activity:Selective cleavage of Arg-|-Thr and then Arg-|-Ile bonds in prothrombin to form thrombin.,function:Factor Xa is a vitamin K-dependent glycoprotein that converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting.,online information:Factor X entry,PTM:N- and O-glycosylated.,PTM:The activation peptide is cleaved by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway).,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-li

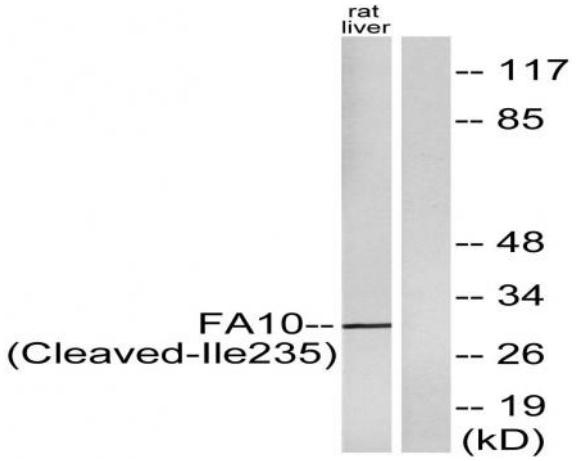
Subcellular Location : Secreted.

Expression : Plasma; synthesized in the liver.

Products Images



Western Blot analysis of rat cells using Cleaved-Factor Xa activated HC (I235) Polyclonal Antibody



Western blot analysis of lysates from rat liver cells, using FA10 (activated heavy chain,Cleaved-Ile235) Antibody. The lane on the right is blocked with the synthesized peptide.