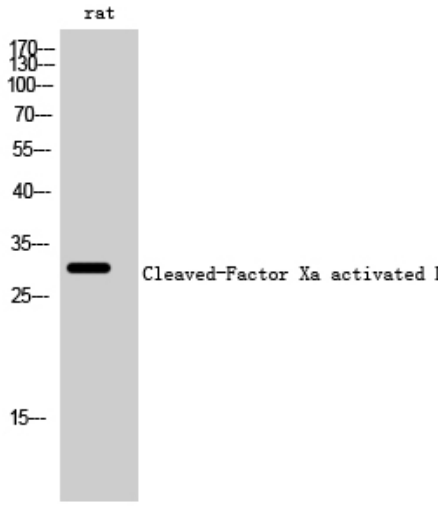
Cleaved-Factor Xa activated HC (I235) Polyclonal Antibody

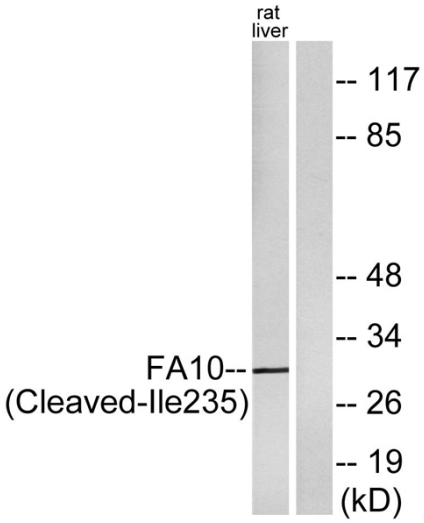
Catalog No	BYab-03350
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	F10
Protein Name	Coagulation factor X
Immunogen	The antiserum was produced against synthesized peptide derived from human FA10. AA range:216-265
Specificity	Cleaved-Factor Xa activated HC (I235) Polyclonal Antibody 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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	F10; Coagulation factor X; Stuart factor; Stuart-Prower factor
Observed Band	30kD
Cell Pathway	Secreted.
Tissue Specificity	Plasma; synthesized in the liver.
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
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
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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.