ELK Biotechnology

FA7 (light chain, Cleaved-Ala61) rabbit pAb

Cat No.:ES19995

For research use only

Overview

Product Name	FA7 (light chain, Cleaved-Ala61) rabbit pAb
Host species	Rabbit
Applications	WB; ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	WB 1:1000-2000 ELISA 1:5000-20000
Immunogen	Synthesized peptide derived from human FA7 (light chain, Cleaved-Ala61)
Specificity	This antibody detects endogenous levels of Human FA7 (light chain, Cleaved-Ala61, protein was cleaved amino acid sequence between 60-61)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20℃. Avoid repeated freeze-thaw cycles.
Protein Name	FA7 (light chain, Cleaved-Ala61)
Gene Name	F7
Cellular localization	Secreted.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	7kD
Human Gene ID	2155
Human Swiss-Prot Number	P08709
Alternative Names	Coagulation factor VII (EC 3.4.21.21;Proconvertin;Serum prothrombin conversion accelerator;SPCA;Eptacog alfa) [Cleaved into: Factor VII light chain; Factor VII heavy chain]
Background	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.,