FA7 (light chain, Cleaved-Ala61) mouse mAb

Catalog No	BYmab-03358
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	F7
Protein Name	FA7 (light chain, Cleaved-Ala61)
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.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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]
Observed Band	17kD(light chain) 51kD(full length) 44kD (mature chain)
Cell Pathway	Secreted.
Tissue Specificity	Plasma.
Function	positive regulation of immune system process, regulation of leukocyte migration, positive regulation of leukocyte migration, regulation of leukocyte chemotaxis, positive regulation of leukocyte chemotaxis, proteolysis, anti-apoptosis,blood coagulation, blood coagulation, extrinsic pathway, hemostasis, response to wounding, positive regulation of signal transduction, regulation of protein kinase cascade, regulation of platelet-derived growth factor receptor signaling pathway, positive regulation of platelet-derived growth factor receptor signaling pathway, positive regulation of cell communication, positive regulation of protein kinase cascade, regulation of

	cell death, regulation of cell migration, positive regulation of cell migration, regulation of response to external stimulus, positive regulation of response to external stimulus, regulation of locomotion, positive regulation of locom
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.,
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.

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