

产品名称: Cleaved-Factor XII HC (R372) Rabbit Polyclonal Antibody
产品货号: APRab08991



产品概述 (Summary)

产品名称 (Production Name)	Cleaved-Factor XII HC (R372) Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	F12
别名 (Alternative Names)	F12; Coagulation factor XII; Hageman factor; HAF
基因 ID (Gene ID)	2161.0
蛋白 ID (SwissProt ID)	P00748.The antiserum was produced against synthesized peptide derived from human FA12. AA range:323-372

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	41kDa

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研究背景 (Background)

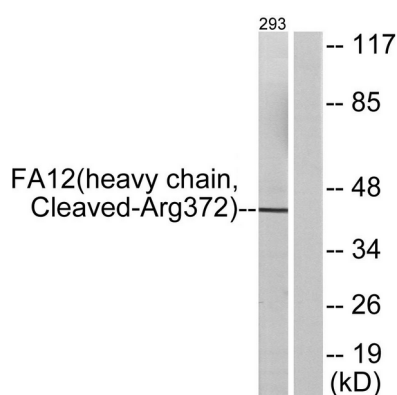
This gene encodes coagulation factor XII which circulates in blood as a zymogen. This single chain zymogen is converted to a two-chain serine protease with an heavy chain (alpha-factor XIIa) and a light chain. The heavy chain contains two fibronectin-type domains, two epidermal growth factor (EGF)-like domains, a kringle domain and a proline-rich domain, whereas the light chain contains only a catalytic domain. On activation, further cleavages takes place in the heavy chain, resulting in the production of beta-factor XIIa light chain and the alpha-factor XIIa light chain becomes beta-factor XIIa heavy chain. Prekallikrein is cleaved by factor XII to form kallikrein, which then cleaves factor XII first to alpha-factor XIIa and then to beta-factor XIIa. The active factor XIIa participates in the initiation of blood coagulation, fibrinolysis, and the generation of bradykinin and angiotensin. It activates catalytic activity: Selective cleavage of Arg-|-Ile bonds in factor VII to form factor VIIa and factor XI to form factor XIa., disease: Defects in F12 are the cause of factor XII deficiency (FA12D) [MIM:234000]; also known as Hageman factor deficiency. This trait is an asymptomatic anomaly of in vitro blood coagulation. Its diagnosis is based on finding a low plasma activity of the factor in coagulating assays. It is usually only accidentally discovered through pre-operative blood tests. F12 deficiency is divided into two categories, a cross-reacting material (CRM)-negative group (negative F12 antigen detection) and a CRM-positive group (positive F12 antigen detection)., disease: Defects in F12 are the cause of hereditary angioedema type 3 (HAE3) [MIM:610618]; also known as estrogen-related HAE or hereditary angioneurotic edema with normal C1 inhibitor concentration and function. HAE is characterized by episodic local subcutaneous edema, and submucosal edema involving the upper respiratory and gastrointestinal tracts. HAE3 occurs exclusively in women and is precipitated or worsened by high estrogen levels (e.g., during pregnancy or treatment with oral contraceptives). It differs from HAE types 1 and 2 in that both concentration and function of C1 inhibitor are normal., function: Factor XII is a serum glycoprotein that participates in the initiation of blood coagulation, fibrinolysis, and the generation of bradykinin and angiotensin. Prekallikrein is cleaved by factor XII to form kallikrein, which then cleaves factor XII first to alpha-factor XIIa and then to beta-factor XIIa. Alpha-factor XIIa activates factor XI to factor XIa., online information: F12 mutation db, online information: Factor XII entry, PTM: O- and N-glycosylated. The O-linked polysaccharides were not identified, but are probably the mucin type linked to GalNAc., similarity: Belongs to the peptidase S1 family., similarity: Contains 1 fibronectin type-I domain., similarity: Contains 1 fibronectin type-II domain., similarity: Contains 1 kringle domain., similarity: Contains 1 peptidase S1 domain., similarity: Contains 2 EGF-like domains.,

研究领域 (Research Area)

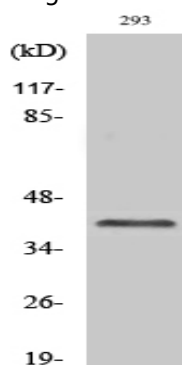
Complement and coagulation cascades;

图片 (Image Data)

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Western blot analysis of lysates from 293 cells, treated with etoposide 25uM 1h, using FA12 (heavy chain, Cleaved-Arg372) Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Cleaved-Factor XII HC (R372) Polyclonal Antibody

注意事项 (Note)

For research use only .