

Cleaved-Factor XII HC (I20) rabbit pAb

Cat#: orb768065 (Manual)

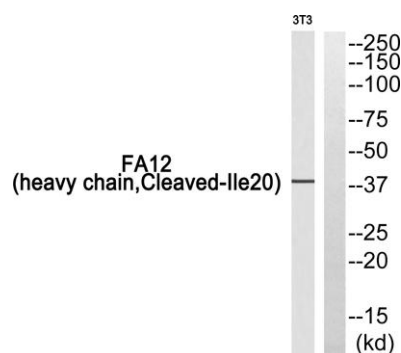
For research use only. Not intended for diagnostic use.

Product Name	Cleaved-Factor XII HC (I20) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human FA12. AA range:1-50
Specificity	Cleaved-Factor XII HC (I20) Polyclonal Antibody detects endogenous levels of fragment of activated Factor XII HC protein resulting from cleavage adjacent to I20.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Coagulation factor XII
Gene Name	F12
Cellular localization	Secreted.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

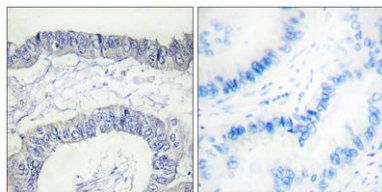
Concentration	1 mg/ml
Observed band	
Human Gene ID	2161
Human Swiss-Prot Number	P00748
Alternative Names	F12; Coagulation factor XII; Hageman factor; HAF

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



Western blot analysis of FA12 (heavy chain, Cleaved-Ile20) Antibody. The lane on the right is blocked with the FA12 (heavy chain, Cleaved-Ile20) peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using FA12 (heavy chain, Cleaved-Ile20) Antibody. The lane on the right is blocked with the FA12 (heavy chain, Cleaved-Ile20) peptide.