

Cleaved-Factor XII HC (R372) Polyclonal Antibody

Description

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|--------------------------------|--|
| Product type | Primary Antibody |
| Code | BT-AP01926 |
| Host | Rabbit |
| Isotype | IgG |
| Size | 20ul, 50ul, 100ul |
| Immunogen | The antiserum was produced against synthesized peptide derived from human FA12. AA range:323-372 |
| Mol wt | 67818 |
| Species reactivity | Human |
| Clonality | Polyclonal |
| Recommended application | WB, ELISA |
| Concentration | 1 mg/ml |
| Full name | Cleaved-Factor XII HC (R372) Antibody |
| Synonyms | F12; Coagulation factor XII; Hageman factor; HAF |

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

F12 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 coagulation factors VII and XI. Defects in F12 do not cause any clinical symptoms and the sole effect is that whole-blood clotting time is prolonged.

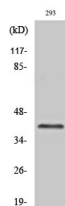
Recommended Dilution

WB: 1: 500 - 1: 2000

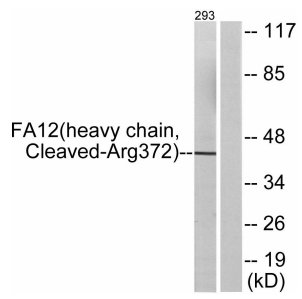
ELISA: 1: 20000

Not yet tested in other applications.

Images



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



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.

Storage

-20°C for one year

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