

## CAB1461

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**Product Information**

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|---------------------|---------|----------------------|--------|--------------------|-----------------|
| <b>Product SKU:</b> | CAB1461 | <b>Gene ID:</b>      | 2162   | <b>Size:</b>       | 20uL, 100uL     |
| <b>Clone No:</b>    | -       | <b>Host Species:</b> | Rabbit | <b>Reactivity:</b> | Human,Mouse,Rat |

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**Additional Information**

|                       |       |                   |              |
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| <b>Observed MW:</b>   | -     | <b>Conjugate:</b> | Unconjugated |
| <b>Calculated MW:</b> | 83kDa | <b>Isotype:</b>   | IgG          |

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**Immunogen Information**

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| <b>Background:</b>           | This gene encodes the coagulation factor XIII A subunit. Coagulation factor XIII is the last zymogen to become activated in the blood coagulation cascade. Plasma factor XIII is a heterotetramer composed of 2 A subunits and 2 B subunits. The A subunits have catalytic function, and the B subunits do not have enzymatic activity and may serve as plasma carrier molecules. Platelet factor XIII is comprised only of 2 A subunits, which are identical to those of plasma origin. Upon cleavage of the activation peptide by thrombin and in the presence of calcium ion, the plasma factor XIII dissociates its B subunits and yields the same active enzyme, factor XIIIa, as platelet factor XIII. This enzyme acts as a transglutaminase to catalyze the formation of gamma-glutamyl-epsilon-lysine crosslinking between fibrin molecules, thus stabilizing the fibrin clot. It also crosslinks alpha-2-plasmin inhibitor, or fibronectin, to the alpha chains of fibrin. Factor XIII deficiency is classified into two categories: type I deficiency, characterized by the lack of both the A and B subunits; and type II deficiency, characterized by the lack of the A subunit alone. These defects can result in a lifelong bleeding tendency, defective wound healing, and habitual abortion. |
| <b>Recommended Dilution:</b> | WB,1:1000 - 1:5000 IF/ICC,1:500 - 1:1000  |
| <b>Synonyms:</b>             | F13A; F13A1   |
| <b>Purification Method:</b>  | Affinity purification   |
| <b>Immunogen:</b>            | Recombinant fusion protein containing a sequence corresponding to amino acids 600-732 of human F13A1 (NP_000120.2).   |
| <b>Storage:</b>              | Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.  |