

## Recombinant Human F10, GST-tagged

**Cat. No.** F10-12614H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Human F10 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 140-488a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>This gene encodes the vitamin K-dependent coagulation factor X of the blood coagulation cascade. This factor undergoes multiple processing steps before its preproprotein is converted to a mature two-chain form by the excision of the tripeptide RKR. Two chains of the factor are held together by 1 or more disulfide bonds; the light chain contains 2 EGF-like domains, while the heavy chain contains the catalytic domain which is structurally homologous to those of the other hemostatic serine proteases. The mature factor is activated by the cleavage of the activation peptide by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway). The activated factor then converts prothrombin to thrombin in the presence of factor Va, Ca<sup>2+</sup>, and phospholipid during blood clotting. Mutations of this gene result in factor X deficiency, a hemorrhagic condition of variable severity.</p> |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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GSH and 1% Triton X-100,15%glycerol.

## GENE INFORMATION

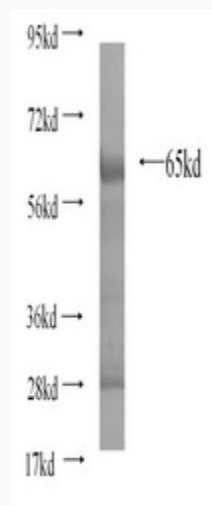
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | F10 coagulation factor X [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>     | F10                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | F10; coagulation factor X; factor Xa; prothrombinase; Stuart-Prower factor; FX; FXA;                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene ID</b>             | 2159                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_000504                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_000495                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 613872                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P00742                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 13q34                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Blood Clotting Cascade, organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Extrinsic Pathway, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; |
| <b>Function</b>            | calcium ion binding; peptidase activity; phospholipid binding; protein binding; serine-                                                                                                                                                                                                                                                                                                                                   |

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type endopeptidase activity; serine-type endopeptidase activity;



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