

## Murine Anti-Factor VII

### Clone GMA-213

Factor VII (Mr 50,000) is a single chain vitamin K-dependent serine protease zymogen that circulates in plasma at a concentration of 10 nM. Activated factor VII, in concert with tissue factor, initiates blood coagulation following vascular injury by activating factors X and IX. GMA-213 binds human Factor VII and human Factor VIIa in solid-phase ELISA and western blot and in immunohistochemistry applications<sup>1</sup>.

### Description

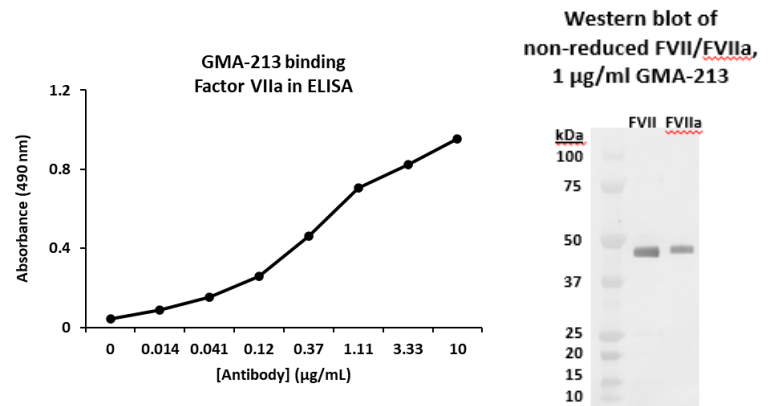
<b>Antibody Source:</b>	mouse monoclonal, IgG <sub>1</sub>
<b>Antigen Species Bound:</b>	human
<b>Specificity:</b>	Factor VII/VIIa
<b>Immunogen:</b>	human Factor VII

### Formulation and Storage

<b>Purity:</b>	Purified by protein G affinity chromatography from serum-free cell culture supernatant.
<b>Product Formulation:</b>	Lyophilized from a $\geq 1$ mg/ml solution in 20 mM NaH <sub>2</sub> PO <sub>4</sub> 0.15 M NaCl, 1.0% (w/v) mannitol, pH 7.4. Concentration determined by absorbance measurement at 280 nm and using an extinction coefficient of 1.4 ( $\epsilon_{0.1\%}$ ).
<b>Reconstitution:</b>	Reconstitute with deionized water.
<b>Storage:</b>	Store lyophilized or reconstituted and aliquoted material at -20°C for prolonged periods. Avoid freeze-thaw cycles. Alternatively, add 0.02% (w/v) sodium azide to reconstituted solution and store at 4°C.
<b>Country of Origin:</b>	USA
<b>Size Options:</b>	0.1 mg or 0.5 mg

### Applications

<b>Working Concentration:</b>	Approximately 1-5 $\mu$ g/ml. Researcher should titer antibody in specific assay.
<b>ELISA:</b>	Binds immobilized human FVII/FVIIa
<b>Immunoblotting:</b>	Binds FVII/FVIIa under non-reduced and FVII under reduced conditions.



### References

[1] B. Cooley, W. Funkhouser, D. Monroe, A. Ezzell, D. M. Mann, F.C. Lin, P.E. Monahan, D. W. Stafford. Prophylactic efficacy of BeneFIX vs Alprolix in hemophilia B mice. (2016). *Blood*. 128(2):286-292.