

## **Murine Anti-Factor V**

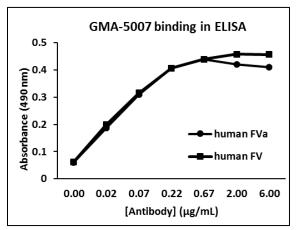
## Clone GMA-5007

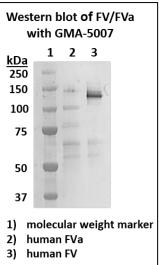
Factor V (FV) circulates in blood as a single chain protein (M<sub>r</sub> 330,000). Following proteolytic activation by thrombin, activated factor V (FVa) serves as the cofactor for factor Xa in the prothrombinase complex that cleaves prothrombin to thrombin in the presence of phospholipid and Ca<sup>2+</sup>. Factor Va is composed of a heavy chain (M<sub>r</sub> 94,000) noncovalently associated to a light chain (M<sub>r</sub> 74,000). GMA-5007 recognizes the activation fragment of FVa,<sup>1</sup> binds FV and FVa under reduced and non-reduced conditions,and can be used for purification of the activation fragment.<sup>1</sup>

Description		
Antibody Source:	mouse monoclonal, IgG <sub>1</sub>	
Antigen Species Bound:	human	
Specificity:	FV, FVa activation fragment	
Immunogen:	human FV	

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Formulation and Storage		
Purity:	Purified by protein G affinity chromatography from serum-free cell culture supernatant.	
Product Formulation:	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 ( $\epsilon_{0.1\%}$ ).	
Reconstitution:	Reconstitute with deionized water.	
Storage:	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.	
Country of Origin:	USA	
Size Options:	0.1 mg or 0.5 mg	

Applications		
Working Concentration:	Approximately 1-5 µg/ml. Researcher should titer antibody in specific assay.	
ELISA:	Binds immobilized human FV/FVa.	
Immunoblotting:	Binds factor V and factor Va under reduced and non- reduced conditions.	
Inhibition:	Not inhibitory in aPTT clotting assay.	





## References

[1] W. B. Foster, M. M. Tucker, J. A. Katzmann, R. S. Miller, M. E. Nesheim, K. G. Mann. Monoclonal antibodies to human coagulation factor V and factor Va. (1983). *Blood*. 61(6):1060-7.