

Murine Anti-Factor VIII

Clone GMA-8027

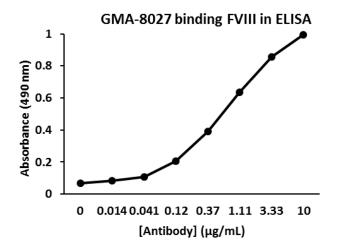
Factor VIII (FVIII) is a heterodimer consisting of a heavy chain (ranging in mass from 90 to 200 kDa) bound via metal ions to a light chain (80 kDa). In plasma, FVIII circulates in an inactive form bound to von Willebrand factor. Following activation by factor Xa or thrombin, factor VIIIa can function as cofactor for the enzyme factor IXa in the activation of factor X in the presence of phospholipid and Ca²+. Absent or defective FVIII is the cause of the X-linked recessive bleeding disorder hemophilia A. GMA-8027 (also known as 3C6) binding to factor VIII moderately inhibits its interaction with von Willebrand factor and strongly inhibits its interaction with phospholipid. The antibody is suitable for ELISA applications.

Description	
Antibody Source:	mouse monoclonal, IgG _{2a}
Antigen Species Bound:	human
Specificity:	FVIII C2 domain
Immunogen:	B-domain deleted recombinant human FVIII

Formulation and Storage

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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 ₂ PO ₄ 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 FVIII.	
Immunoblotting:	Not recommended.	
Inhibition:	Slightly inhibitory in aPTT clotting assay. ¹	



References

[1] S.L. Meeks, J.F. Healey, E.T. Parker, R.T. Barrow, P. Lollar. Antihuman factor VIII C2 domain antibodies in hemophilia A mice recognize a functionally complex continuous spectrum of epitopes dominated by inhibitors of factor VIII activation. (2007). *Blood*. 110(13):4234-4242.