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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Green Mountain Antibodies

Murine Anti-Factor VIII

Clone GMA-8015

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 Ca^{2+}. Absent or defective FVIII is the cause of the X-linked recessive bleeding disorder hemophilia A. GMA-8015 (also known as 4A4) recognizes the A2 domain of FVIII, inhibits FVIII activation of factor X, and binds human, murine, and rhesus FVIII by ELISA.

Description

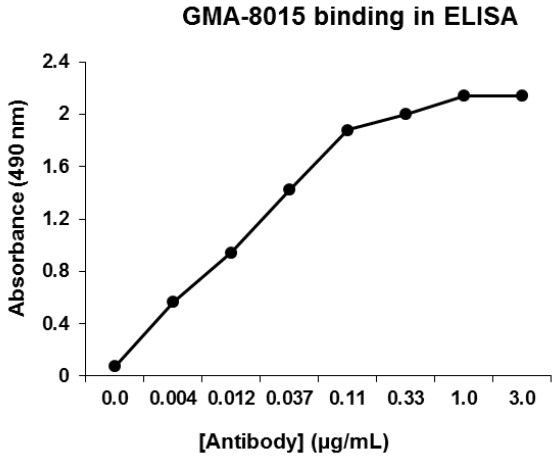
Antibody Source:	mouse monoclonal, IgG_{2ak}
Antigen Species Bound:	human, murine, rhesus monkey
Specificity:	FVIII A2 domain, epitope within residues 403-444[1]
Immunogen:	B-domain deleted recombinant human FVIII

Formulation and Storage

Purity:	IgG purified by protein G affinity chromatography from serum free cell culture supernatant.
Product Formulation:	Lyophilized from a ≥1 mg/ml solution in 20 mM NaH_2PO_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 ($\varepsilon_{0.1\%}$).
Reconstitution:	Reconstitute with deionized water.
Storage:	Aliquot and store at -20° C for prolonged periods. Avoid freeze-thaw cycles. Alternatively, add 0.02% (w/v) sodium azide 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, murine, rhesus FVIII.
Immunoblotting:	Does not blot.
Inhibition:	40000 Bethesda Units/mg IgG[1]



References

[1] R.C. Markovitz, J.F. Healey, E.T. Parker, S.L. Meeks, P. Lollar. The diversity of the immune response to the A2 domain of human factor VIII. (2013). *Blood*. 121(14):2785-2795.

[2] R.J. Summers, S.L. Meeks, J.F. Healey, H.C. Brown, E.T. Parker, C. L. Kempton. Factor VIII A3 domain substitution N1922S results in hemophilia A due to domain-specific misfolding and hyposecretion of functional protein. (2011). *Blood*. 117(11):3190-3198.

3] L. Ivanciu, R. Toso, P. Margaritis, G. Pavani, H. Kim, A. Schlachterman, J. Liu, V. Clerin, D.D. Pittman, R. Rose-Miranda, K.M. Shields, D.V. Erbe, J.F. Tobin, V.R. Arruda, R.M. Camire. Correction of the coagulation defect in hemophilia using a factor Xa variant with novel engineered protease function. (2011). *Nat Biotechnol.* 29(11):1028-1033.

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