



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Murine Anti-Factor VIII

Clone GMA-8008

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-8008 (also known as 1B5)¹ recognizes the C2 domain of FVIII, inhibits FVIII activation by thrombin or factor Xa, but does not inhibit the binding of FVIII to phospholipid membranes¹. It is suitable for ELISA and bio-layer interferometry pairing experiments, as well as surface plasmon resonance.²

Description

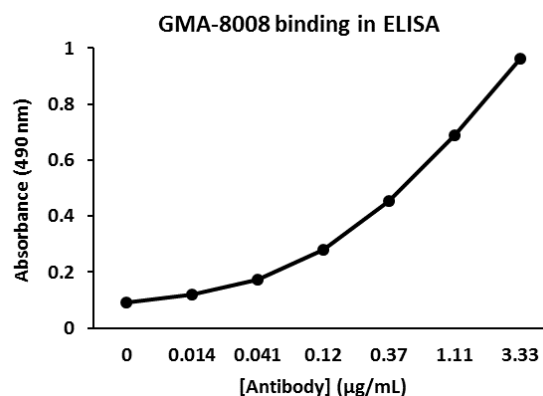
Antibody Source:	mouse monoclonal, IgG _{2a}
Antigen Species Bound:	human
Specificity:	FVIII C2 domain
Immunogen:	B-domain deleted recombinant human FVIII

Formulation and Storage

Purity:	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 ($\epsilon_{0.1\%}$).
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 $\mu\text{g/ml}$. Researcher should titer antibody in specific assay.
ELISA:	Binds immobilized human FVIII.
Immunoblotting:	Not recommended.
Inhibition:	Inhibitory in aPTT clotting assay. ¹
Bio-layer Interferometry:	Can be used in conjunction with GMA-8003, -8011, and -8013 for detection of FVIII.



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.
- [2] P.T. Nguyen, K.B. Lewis, R.A. Ettinger, J.T. Schuman, J.C. Lin, J.F. Healey, S.L. Meeks, P. Lollar, K.P. Pratt. High-resolution mapping of epitopes on the C2 domain of factor VIII by analysis of point mutants using surface plasmon resonance. (2014). *Blood*. 123(17):2732-2739.
- [3] S. Krishnamoorthy, T. Liu, D. Drager, S. Patarroyo-White, E.S. Chhabra, R. Peters, N. Josephson, D. Lillicrap, R.S. Blumberg, G. F. Pierce, H. Hiang. Recombinant factor VIII Fc (rFVIII Fc) fusion protein reduces immunogenicity and induces tolerance in hemophilia A mice. (2016). *Cell Immunol*. 301:30-39.