

Murine Anti-Factor IX

Clone GMA-162

Factor IX (FIX) is a vitamin K-dependent zymogen that plays an essential role in the coagulation cascade leading to thrombus formation. In the presence of calcium, activated Factor IX (FIXa) complexes with Factor VIIIa on phospholipid surfaces to create the tenase complex, which converts Factor X to its activated form. Absent or defective FIX is the cause of the X-linked recessive bleeding disorder hemophilia B. GMA-162 (16E11) binds to Factor IXa but not FIX, as detected by Western blot and ELISA¹. It can be used in a sandwich ELISA with GMA-164 to detect free Factor IXa and Factor IX in complex with antithrombin¹.

Description

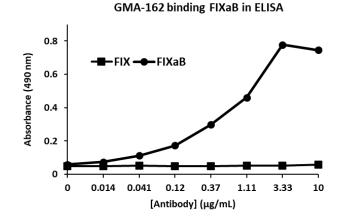
Antibody Source:	mouse monoclonal, IgG1
Antigen Species Bound:	human
Specificity:	Factor IXa heavy chain
Immunogen:	Human Factor IXa peptide (VVGGEDAKPGQFPWQC) conjugated to KLH.

Formulation and Storage

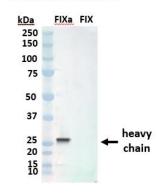
Purity:	Purified by protein G affinity chromatography from serum-free cell culture supernatant.
Product Formulation:	Lyophilized from a ≥ 1 mg/ml solution in 20 mM NaH ₂ PO ₄ 0.15 M NaCl, 1.0% (w/v) mannitol, pH 7.4. Concentration determined by absorbance measurement at 280 nm and using an extinction 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 FIXa
Immunoblotting:	Western blot detects heavy chain of human FIXa under reduced conditions.



Western blot of reduced FIX/FIXa, 0.5µg/ml GMA-162



References

1] T.M. Misenheimer, M.R. Lasarev, K.T. Kumfer, J.P. Sheehan, B.S. Schwartz. A novel fator IXa-specific enzyme-linked immunosorbent assay detects factor IXa in human plasma. (2023). *RPTH*

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