

Murine Anti-Factor X

Clone GMA-508

Factor X (Mr 59,000) is a vitamin K-dependent plasma protein zymogen that plays a central role as the substrate for both the intrinsic (factor VIIa, tissue factor) and extrinsic (factor IXa, factor VIIIa) pathways. In the presence of cofactor factor Va, phospholipid, and Ca^{2+} , activated factor X cleaves two peptide bonds in prothrombin to form thrombin. GMA-508 binds human factor X heavy chain in solid-phase ELISA and Western blot.

Description

Antibody Source: mouse monoclonal, IgG₁

Antigen Species Bound: human

Specificity: factor X heavy chain

Immunogen: human factor X

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 $-20^\circ C$ for prolonged periods. Avoid freeze-thaw cycles. Alternatively, add 0.02% (w/v) sodium azide to reconstituted solution and store at $4^\circ C$.

Country of Origin: USA

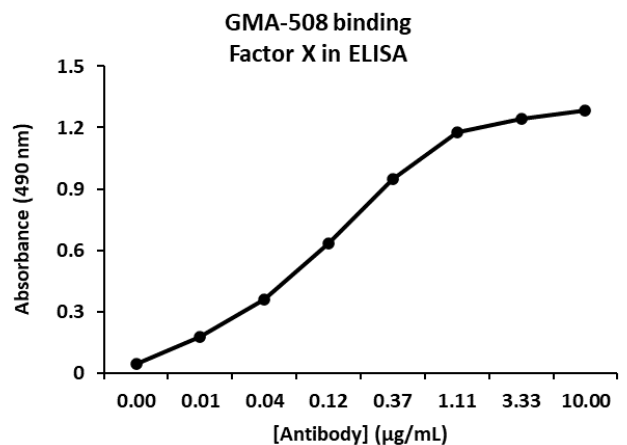
Size Options: 0.1 mg or 0.5 mg

Applications

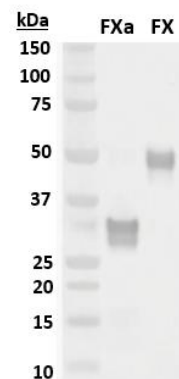
Working Concentration: Approximately 1-5 $\mu g/ml$. Researcher should titer antibody in specific assay.

ELISA: Binds human factor X and Xa.

Immunoblotting: Binds human factor X heavy chain under reduced conditions and non-reduced conditions.



Western blot of reduced FXa/FX 1 $\mu g/ml$ GMA-508



References

[1] R.L.R. Carter, K. Talbot, W.S. Hur, S.C. Meixner, J.G. Van Der Gugten, D.T. Holmes, H.C.F. Côté, C.J. Kastrop, T.W. Smith, A.Y.Y. Lee. Rivaroxaban and apixaban induce clotting factor Xa fibrinolytic activity. (2018). *J Thromb Haemost.* 16(11):2276-2288.