



## Enzyme Research Laboratories

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# Murine Anti-Factor X

## Clone 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. Mab HFX-HC binds human factor X in solid-phase ELISA and Western blot.

## Description

<b>Antibody Source:</b>	mouse monoclonal, IgG <sub>1</sub>
<b>Antigen Species Bound:</b>	human
<b>Specificity:</b>	factor X heavy chain
<b>Immunogen:</b>	human factor X

## Formulation and Storage

<b>Purity:</b>	Purified by protein G affinity chromatography from serum-free cell culture supernatant.
<b>Product Formulation:</b>	Lyophilized from a $\geq 1$ 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 ( $\epsilon_{0.1\%}$ ).
<b>Reconstitution:</b>	Reconstitute with deionized water.
<b>Storage:</b>	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 $4^\circ C$ .
<b>Country of Origin:</b>	USA
<b>Size Options:</b>	0.1 mg or 0.5 mg

## Applications

<b>Working Concentration:</b>	Approximately 1-5 $\mu g/ml$ . Researcher should titer antibody in specific assay.
<b>ELISA:</b>	Binds human factor X and Xa.
<b>Immunoblotting:</b>	Binds human factor X heavy chain under reduced conditions and non-reduced conditions.

## References

[1] R.L.R. Carter et al. (2018). J Thromb Haemost. 16(11):2276-2288.