

Rat Anti-Murine Factor X

Clone GMA-762

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-762 binds murine Factor X and Factor Xa light chain in solid-phase ELISA and Western blot. It is inhibitory in a thrombin generation assay using Factor X deficient plasma spiked with murine Factor X.

Description

Antibody Source: rat monoclonal, IgG_{2a}

Antigen Species Bound: murine

Specificity: FX/FXa light chain

Immunogen: murine 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

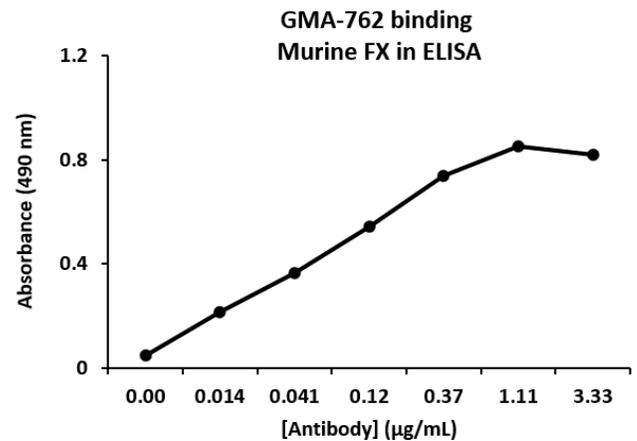
Applications

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

ELISA: Binds murine Factor X and Xa in solid-phase ELISA.

Immunoblotting: Binds murine Factor X and Xa light chain under reduced and non-reduced conditions.

Inhibition: aPTT: 78.3 PT: 91.1



Western blot of reduced murine FXa, 1 $\mu g/mL$ GMA-762

