



Rat Anti-Mouse Factor VIII

Clone GMA-781

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-781 binds murine Factor VIII in solid-phase ELISA and can be paired with GMA-780.

Description

Antibody Source: rat monoclonal, IgG_{2a}

Antigen Species Bound: mouse

Specificity: murine Factor VIII

Immunogen: murine Factor VIII

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 VIII in solid-phase ELISA.

Immunoblotting: Not recommended.

