



Rat Anti-Murine Factor V

Clone GMA-756

Factor V (FV) circulates in blood as a single chain protein (M_r 330,000). Following proteolytic activation by thrombin, activated factor V (FVa) serves as the cofactor for factor Xa in the prothrombinase complex that cleaves prothrombin to thrombin in the presence of phospholipid and Ca^{2+} . Factor Va is composed of a heavy chain (M_r 94,000) non-covalently associated to a light chain (M_r 74,000). GMA-756 binds murine and human Factor V and Factor Va in solid-phase ELISA. It inhibits clotting.

Description

Antibody Source: rat monoclonal, IgG_{2a}

Antigen Species Bound: Murine, human

Specificity: FV/FVa

Immunogen: Murine Factor V

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 °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 μ g/ml. Researcher should titer antibody in specific assay.

ELISA: Binds murine and human Factor V and Va in solid-phase ELISA.

Immunoblotting: Not recommended.

