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Murine Anti-Factor V

Clone 044

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). Mab HFV recognizes the heavy chain of FVa, and is suitable for ELISA and Western blot applications.

Description

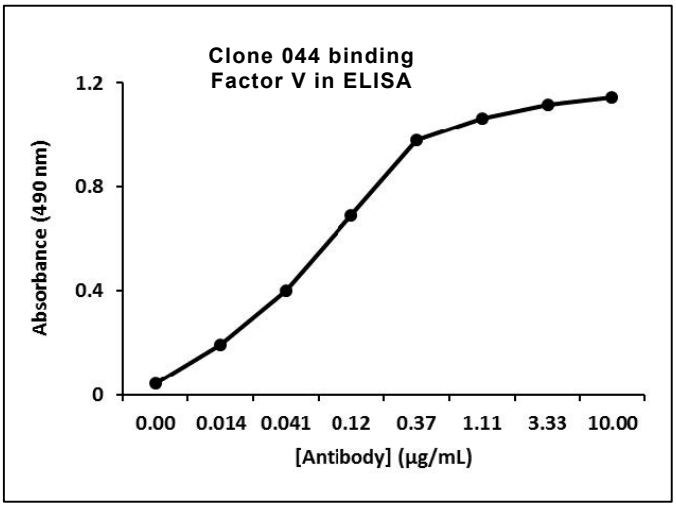
Antibody Source:	mouse monoclonal, IgG_1
Antigen Species Bound:	human
Specificity:	FV/Va heavy chain
Immunogen:	human FV

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 ($\varepsilon_{0.1\%}$).
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 µg/ml. Researcher should titer antibody in specific assay.
ELISA:	Binds immobilized human FV/FVa.
Immunoblotting:	Binds FVa under reduced and non-reduced conditions, and FV under reduced conditions.
Inhibition:	Not inhibitory in aPTT clotting assay.



Western blot of FVa with Clone 044, reduced