Rat Anti-Murine Factor V

Clone GMA-754

Factor V (Mr 330,000) circulates in blood as a single chain protein. Following proteolytic activation, activated factor V (FVa), composed of a heavy chain (Mr 94,000) non-covalently associated to a light chain (Mr 74,000), is the cofactor for factor Xa in the prothrombinase complex that cleaves prothrombin to thrombin in the presence of phospholipid and Ca^{2+}. GMA-754 binds murine Factor V and Factor Va in solid-phase ELISA. It does not cross-react with human factor V. It pairs with GMA-753 and GMA-755 in Octet.

Description

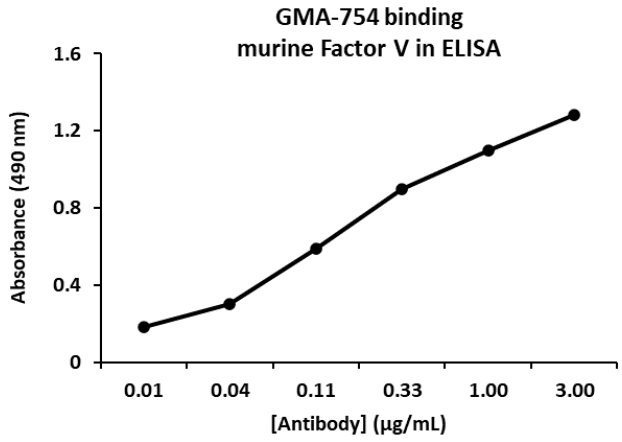
Antibody Source:	rat monoclonal, $IgG2_a$
Antigen Species Bound:	murine
Specificity:	FV/FVa
Immunogen:	Murine Factor V

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 ($\varepsilon_{0.1\%}$).
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 murine Factor V and Va in solid-phase ELISA.
Immunoblotting:	Not recommended.



References

[1] M. Zhu, C. Zheng, W. Wei, L. Everett, D. Ginsburg, B. Zhang. Analysis of MCFD2-and LMAN1-deficient mice demonstrates distinct functions in vivo. (2018). *Blood Advances*. 2(9):1014-1021.

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