



# Rat Anti-Murine Factor V

## Clone GMA-755

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-755 binds murine and human Factor V and Factor Va in solid-phase ELISA. It pairs with GMA-753 and GMA-754 in Octet, and inhibits clotting.

### Description

**Antibody Source:** Rat monoclonal, IgG<sub>2a</sub>

**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  $\geq 1$  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 and human Factor V and Va in solid-phase ELISA.

**Immunoblotting:** Not recommended.

