

## Rat Anti-Murine Prothrombin

### Clone GMA-792

Prothrombin is the vitamin K-dependent zymogen of thrombin. As a single chain protein (Mr 72,000) it contains 10 Gla residues, 2 kringle domains and three N-linked carbohydrate units. Prothrombin is activated to thrombin by the prothrombinase complex consisting of enzyme factor Xa, cofactor factor Va, phospholipid and Ca<sup>2+</sup>. GMA-792 binds murine prothrombin in solid-phase ELISA and Western blot. It cross-reacts with human prothrombin.

### Description

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

**Antigen Species Bound:** murine, human

**Specificity:** prothrombin

**Immunogen:** murine prothrombin

### 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<sub>2</sub>PO<sub>4</sub> 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 (ε<sub>0.1%</sub>).

**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

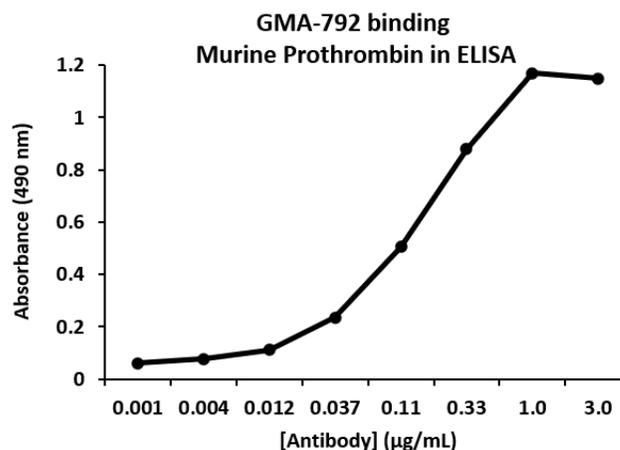
**Size Options:** 0.1 mg or 0.5 mg

### Applications

**Working Concentration:** Approximately 1-5 µg/ml. Researcher should titer antibody in specific assay.

**ELISA:** Binds murine and human prothrombin in solid-phase ELISA.

**Immunoblotting:** Binds murine and human prothrombin under non-reduced conditions, and weakly under reduced conditions.



### Western blot of non-reduced murine prothrombin, 1 µg/mL GMA-792

