



Murine Anti-Prothrombin

Clone GMA-097

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^{2+} . GMA-097 binds human prothrombin in solid-phase ELISA and western blot.

Description

Antibody Source: mouse monoclonal, IgG_{2b}

Antigen Species Bound: human

Specificity: prothrombin

Immunogen: human 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_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 $\mu\text{g/ml}$. Researcher should titer antibody in specific assay.

ELISA: Binds human prothrombin, prethrombin 1, prethrombin 2, fragment 1.2, and fragment 2.

Immunoblotting: Binds human prothrombin, prethrombin 1, and prethrombin 2 under reduced conditions.