

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 Ca²⁺. GMA-097 binds human prothrombin, prothrombin 1 and prothrombin 2 in western blot.

Description

Antibody Source:	mouse monoclonal, IgG _{2b}
Antigen Species Bound:	human
Specificity:	prothrombin, prethrombin 1, prethrombin 2
Immunogen:	human prothrombin

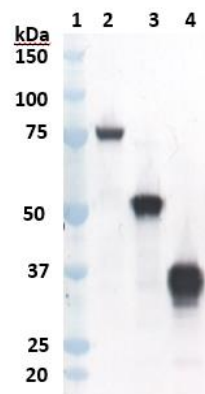
Formulation and Storage

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 ₂ PO 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 (ε _{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:	Not recommended.
Immunoblotting:	Binds human prothrombin, prethrombin 1, and prethrombin 2 under reduced conditions.

Western blot of reduced proteins, 1 µg/mL GMA-097



- 1) molecular weight marker
- 2) prothrombin
- 3) prethrombin 1
- 4) prethrombin 2