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Murine Anti-Antithrombin

Clone 800

Antithrombin III (Mr 58,000) is a plasma protease inhibitor and member of the serpin gene family. Rates of antithrombin III-mediated inhibition of thrombin, factor Xa and factor IXa are accelerated by up to several 1000-fold by heparin. Mab HAT binds human and baboon antithrombin by ELISA and western blot. It does not cross react with bovine, canine or rabbit antithrombin. The antibody inhibits antithrombin activity in chromogenic thrombin assays.

Description

Antibody Source: mouse monoclonal, IgG₁

Antigen Species Bound: human

Specificity: antithrombin

Immunogen: human antithrombin III

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 NaH₂PO₄ 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 μ g/ml. Researcher should titer antibody in specific assay.

ELISA: Binds human and baboon antithrombin.

Immunoblotting: Binds human and baboon antithrombin, under reduced and non-reduced conditions.

Inhibition: Inhibits antithrombin activity in chromogenic thrombin assays.

