

**Anti-Thrombin (human)
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

HYB 109-03

PRESENTATION

Preparation: Protein-A purified
Content: Available in 200 µL and 1 mL volumes, 1 mg/mL
Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage: In the dark at 4-8°C

ANTIGEN

Thrombin is the active enzyme that splits fibrinogen into fibrin in final stage of blood coagulation. It is generated from its circulating inactive precursor, prothrombin, by the action of factor Xa aided by factor Va, phospholipid and calcium ions. Thrombin is a glycoprotein formed by a 6-kDa A chain linked by a disulfide bridge to a 31-kDa B chain which carries the serine protease catalytic site.

IMMUNOGEN

Thrombin isolated from activated human plasma and adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 109-03 binds to human thrombin and to complex of human thrombin with the thrombin inhibitor hirudin. No cross-reaction is seen with prothrombin. Cross-reactivity with thrombin from other species has not been tested.

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

HYB 109-03 reacts strongly in ELISA with thrombin coated directly onto the microtiter wells. Biotinylation of thrombin blocks antibody binding.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1/50	
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at high concentration. Users should determine the optimal dilutions for their own purposes.

REFERENCES

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.