

**Anti Fibrinogen (human)  
Mouse Monoclonal Antibody**Subclass: IgG<sub>1</sub>/kPRODUCT NO. **HYB 051-07**

PRESENTATION Preparation: Protein-A/G purified  
Content: 1 mL, 1 mg/mL  
Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide  
Storage: In the dark at 4-8°C

ANTIGEN Fibrinogen, the precursor of fibrin, is the coagulable protein in the blood plasma of vertebrates. Fibrinogen consists as a dimer of 3 pairs of non-identical chains Aa (Mr= 66,800), Bb (Mr= 52,000) and g (Mr=46,500) cross-linked by disulfide bonds in their N-terminal segments. The molecule has 2 terminal D domains and one central E domain, all three domains are separated when fibrinogen is degraded by plasmin. MW is 340 kDa (1). Concentration in human plasma is 2-3 mg/ml (2).

IMMUNOGEN Fibrinogen isolated from human plasma

SPECIFICITY HYB 051-07 has specificity for human fibrinogen degradation product D-fragment. HYB 051-07 reacts with both purified D-monomer, fibrinogen and factor VIII.

EPIOTOPE SPECIFICITY Epitope specificity differs from that of HYB 051-04 as determined by inhibition ELISA.

REACTIVITY HYB 051-07 reacts strongly with D-monomer (Sigma, F-9036). Strong reaction is seen in ELISA with antigen directly coated onto the microtiter plate or in sandwich ELISA in combination with a polyclonal antibody against fibrinogen (DAKO A0080). In Western blotting after SDS-PAGE, HYB 051-07 reacts with fibrinogen degradation product D-monomer in nonreduced forms to create a band of approximately 92kDa.

CULTURE MEDIUM RPMI 1640 with 10% fetal calf serum

FUSION PARTNER X63-Ag8.653.

IMMUNIZATION Female CF1 x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH)<sub>3</sub>

Method	Usability	Dilution guideline	References
ELISA	Yes	1:16,000	
Immunoblotting	Yes	1:2000	
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on sandwich ELISA in combination with a polyclonal antibody against the antigen. Users should determine the optimal dilutions for their own purpose.

## REFERENCES

1. Doolittle RF (1977) Structure and function of fibrinogen. *Horiz Biochem Biophys* 3:164-191.
2. Scott T & Eagleson M (1988) *Concise Encyclopedia Biochemistry*: Walter de Gruyter, New York.

## 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.