

**Anti Complement factor I (human)
mouse monoclonal antibody**

Subclass: IgG1/I

PRODUCT NO. **HYB 061-01**

PRESENTATION

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

ANTIGEN

Factor I, a serine protease, is a regulatory component of both the alternative and the classical complement pathway. Factor I is synthesized as a single chain precursor of 88 kDa, processed to yield the active form, composed of two disulfide-linked chains, the a-chain (50 kDa) and the b-chain (38 kDa) (2). Plasma concentration is 35 µg/ml (1).

IMMUNOGEN

Factor I isolated from human plasma

SPECIFICITY

HYB 061-01 is specific for the a-chain of human factor I

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

HYB 061-01 reacts strongly with factor I. Strong reaction is seen with normal human plasma when used in sandwich ELISA in combination with a polyclonal antibody against factor I as capture antibody (e.g. sheep anti human factor I from Serotec). In Western blotting after SDS-PAGE, HYB 061-01 reacts with factor I in non-reduced form.

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)₃

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:125	
Immunoblotting	Yes		
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. Morley BJ and Walport MJ (2000) The Complement FactsBook. Academic Press, London, UK.
2. Law SKA, Reid KBM (1988) Complement. In: In Focus (Ed. Male D) IRL Press: Oxford.
3. Rasmussen JM (1991) Inherited deficiencies of complement proteins with special reference to congenital deficiency of the regulatory protein factor I. APMIS Suppl 22:1-48.

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.