

**Anti-Complement factor B (human)  
 Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

**HYB 008-04**

Clone:9B6

PRESENTATION

Preparation: Protein-A/G 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

Factor B is a component of the alternative pathway of complement activation. The protein consists of a single polypeptide chain of molecular mass 93 kDa, and has a concentration in plasma of approximately 200 µg/mL. Factor B is cleaved by factor D into the Ba component (30 kDa) and the Bb (63 kDa). Together with C3b, Bb forms the alternative pathway C3 convertase C3bBb (1).

IMMUNOGEN

Complement factor B purified from human plasma and adsorbed to aluminum hydroxide gel

SPECIFICITY

HYB 008-04 is specific for the Bb fragment of human factor B. Antibody binding abolishes the formation of C3bBb complexes.

EPI TOPE SPECIFICITY

Differs from that of HYB 008-06. Also differs from HYB 008-02 but with slight overlap as determined by some mutual inhibition of antibody binding.

REACTIVITY

HYB 008-04 reacts strongly with human factor B. A strong reaction is seen when used as a biotinylated detection antibody in sandwich ELISA with a polyclonal capture antibody against factor B (e.g. Dako A0343). In Western blotting after SDS-PAGE, HYB 008-04 reacts with the Bb fragment of factor B in its non-reduced form only.

CULTURE MEDIUM

Dulbecco's modified Eagle's medium 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	1/200	
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody in sandwich ELISA with a polyclonal capture antibody. Users should determine the optimal dilution for their own purpose.

REFERENCES

1. Kolb WP, Morrow PR, Tamerius JD (1989) Ba and Bb fragments of factor B activation: fragment production, biological activities, neoepitope expression and quantitation in clinical samples. *Complement Inflamm* 6:175-204.

**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.