

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

Subclass: IgG1/k

PRODUCT NO.

HYB 008-02

Clone: 9B8

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

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 008-02 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 008-04 and HAV 005-02, but with slight overlap as determined by some mutual inhibition of antibody binding.

REACTIVITY

HYB 008-02 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 008-02 reacts with the Bb fragment of factor B in its non-reduced form only. HYB 008-02 can be used for the affinity purification of human factor B, when coupled to a suitable matrix.

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	References
ELISA	Yes	
Immunoblotting	Yes	
Immunohistochemistry	Not determined	

REFERENCES

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

CONDITIONS

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