

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

Subclass: IgG<sub>1</sub>/κ

PRODUCT NO.

**HYB 022-03**

Clone: 1D2 E4

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

Complement factor B plays an important role in the alternative complement activation pathway by complexing with C3b to create the active C3 convertase. The alternative activation pathway was the first to evolve, thus the components involved are very similar in physiological different species.

IMMUNOGEN

Complement factor B isolated from chicken plasma adsorbed onto aluminum hydroxide gel (1)

SPECIFICITY

HYB 022-03 is specific for the Bb fragment of chicken factor B, both native and denatured.

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

In Western blotting after SDS-PAGE, HYB 022-03 reacts with the three different phenotypes of factor B, either generating four fast running bands (phenotype F), four slow running bands (type S) or six bands (type S/F) (1). In ELISA, HYB 022-03 shows strong reaction with factor B (chicken) coated directly onto the microtiter well.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1/15,000	1
Immunoblotting	Yes		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.1-1 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

1. Koch C (1986) A genetic polymorphism of the complement component factor B in chickens not linked to the major histocompatibility complex (MHC). Immunogenetics 23:364-367.
2. Kjalke M, Welinder KG, Koch C (1993) Structural analysis of chicken factor B-like protease and comparison with mammalian complement proteins factor B and C2. J Immunol 151:4147-4152.
3. Koch C (1986) The alternative complement pathway in chickens. Purification of factor B and production of a monospecific antibody against it. Acta Pathol Microbiol Immunol Scand C 94:253-259.
4. Koch C, Skjodt K, Laursen I (1985) A simple immunoblotting method after separation of proteins in agarose gel. J Immunol Methods 84:271-278.

**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.