

**Anti-Mannan-binding lectin (chicken, MBL)
Mouse monoclonal antibody**

Subclass: IgG1/I

PRODUCT NO.

HYB 182-01

Clone: 6B11

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

Mannan-binding lectin (MBL) belongs to the C-type family of collectins. It functions as an opsonin which activates complement on binding to microbial polysaccharides. Studies on chicken MBL are described in refs 1-4.

IMMUNOGEN

MBL purified from chicken plasma and adsorbed onto aluminum hydroxide

SPECIFICITY

HYB 182-01 is specific for chicken MBL

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

In ELISA HYB 182-01 reacts strongly with chicken MBL. HYB 182-01 can be used as coating antibody (5 µg/mL) with biotinylated HYB 182-01 as detection antibody (1 µg/mL) in sandwich ELISA (1-3). In Western blotting a dilution guideline of 1/1000 has proved successful (4).

CULTURE MEDIUM

RPMI 1640 with 2-10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injections

APPLICATION

Method	Usability	References
ELISA	Yes	3
Immunoblotting	Yes	4
Immunohistochemistry	Yes	4

REFERENCES

1. Laursen SB, Hedemand JE, Nielsen OL, Thiel S, Koch C, Jensenius JC (1998) Serum levels, ontogeny and heritability of chicken mannan-binding lectin (MBL). *Immunology* 94:587-593.
2. Nielsen OL, Jensenius JC, Jorgensen PH, Laursen SB (1999) Serum levels of chicken mannan-binding lectin (MBL) during virus infections; indication that chicken MBL is an acute phase reactant. *Vet Immunol Immunopathol* 70:309-316.
3. Juul-Madsen HR, Munch M, Handberg KJ, Sorensen P, Johnson AA, Norup LR, Jorgensen PH (2003) Serum levels of mannan-binding lectin in chickens prior to and during experimental infection with avian infectious bronchitis virus. *Poult Sci* 82:235-241.
4. Nielsen OL, Jorgensen PH, Hedemand J, Jensenius JC, Koch C, Laursen SB (1998) Immunohistochemical investigation of the tissue distribution of mannan-binding lectin in non-infected and virus-infected chickens. *Immunology* 94:122-128.

CONDITIONS

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