

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

Subclass: IgG1/k

PRODUCT NO.

**HYB 131-18**

Clone: 11F11

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), also called mannanose-binding lectin or protein, belongs to the C-type family of collectins, showing calcium-dependent binding to certain sugars (1). It consists of oligomers of triple-chain subunits and its binding and complement activating activities depend on its normal oligomerization. On binding to mannan-like microbial surface carbohydrates, MBL activates the complement system by means of its own lectin pathway, depending on the MBL-associated serine proteases (MASPs). Because of the presence of different structural and promoter alleles in the population, 12% or more of the population have low concentrations (<50ng/mL) of normally oligomerized, functional MBL in plasma or serum (2).

IMMUNOGEN

MBL purified from human donor plasma and adsorbed onto aluminum hydroxide

SPECIFICITY

HYB 131-18 is specific for human MBL from plasma or serum, but cross-reacts with MBL from rat.

EPITOPE SPECIFICITY

Not determined (presumably reacts with the carbohydrate recognition domain)

REACTIVITY

HYB 131-18 reacts with rat serum, when captured on a mannan coat in ELISA. HYB 131-08 also reacts with human MBL coated directly onto the microtiter plate.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Yes	
Immunohistochemistry	Not determined	

REFERENCES

1. Kawasaki N, Kawasaki T, Yamashina I (1983) Isolation and characterization of a mannan-binding protein from human serum. *J Biochem (Tokyo)* 94:937-947.
2. Steffensen R, Thiel S, Varming K, Jersild C, Jensenius JC (2000) Detection of structural gene mutations and promoter polymorphisms in the mannan-binding lectin (MBL) gene by polymerase chain reaction with sequence-specific primers. *J Immunol Methods* 241:33-42.

**CONDITIONS**

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