

**Anti-Mannan-binding lectin (human, horse, pig, MBL)  
 Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

**HYB 131-14**

Clone: 15C5

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 131-14 is specific for human MBL from plasma or serum, but cross-reacts strongly with MBL from horse and pig.

EPI TOPE SPECIFICITY

Not determined (presumably reacts with the carbohydrate recognition domain)

REACTIVITY

HYB 131-14 reacts strongly with human, horse and pig serum, when captured on a mannan coat in ELISA. A weaker reaction is seen when HYB 131-14 is used as a detection antibody for human MBL coated directly onto the microtiter plate.

CULTURE MEDIUM

RPMI 1640 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. 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**

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.