

**Anti Mannan-binding lectin (human MBL)****Mouse Monoclonal Antibody, biotinylated**Subclass: IgG₁/k**HYB 131-01 B**

PRODUCT NO.

PRESENTATION

Preparation: Biotinylated
 Content: Available in 200 µL and 1 mL, 1 mg/mL
 Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.13 M NaCl and 15 mM sodium azide
 Storage: In the dark at 4-8°C

ANTIGEN

Mannan-binding lectin (MBL) belongs to the C-type family of collectins. On specific binding to microbial surface carbohydrates, MBL activates the complement system by means of its own lectin pathway, depending on the MBL-associated serine proteases (MASPs). Investigations have shown that up to 12% of normal blood donors (1) have low (<50ng/mL) MBL plasma concentrations.

IMMUNOGEN

Human MBL (2)

SPECIFICITY

HYB 131-01 is specific for MBL from human serum or plasma.

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HYB 131-10 and HYB 131-11. Epitope is near the carbohydrate-binding site.

REACTIVITY

In Western blotting, HYB 131-01 reacts with human MBL both in its polymeric conformation and as a single subunit of molecular mass 26 kDa.
 Used as detection antibody in sandwich ELISA with a mannan or HYB 131-01 coat, HYB 131-01 is selective for normally oligomerized MBL.
 HYB 131-01 is also well suited for immunohistochemistry on human tissue samples, frozen or paraffin embedded, from liver and brain.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653.

IMMUNIZATION

Female CF1 x BALB/c mice, immunized i.p. with immunogen adsorbed onto Al(OH)₃

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:40,000*	
Immunoblotting	Yes		
Immunohistochemistry	Yes		5

*The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.3 µg/ml. Suggested dilution when used as detection antibody is 0.5 µg/ml

REFERENCES

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2. Kawasaki N, Kawasaki T, Yamashina I (1983) Isolation and characterization of a mannan-binding protein from human serum. *J Biochem (Tokyo)* 94:937-947.
3. Madsen J, Tornøe I, Nielsen O, Koch C, Steinhilber W, Holmskov U (2003) Expression and localization of lung surfactant protein A in human tissues. *Am J Respir Cell Mol Biol* 29:591-7.
4. Holmskov UL (2000) Collectins and collectin receptors in innate immunity. *APMIS Suppl* 100:1-59.
5. Harboe M, Garred P, Borgen M S, Stahl G L, Roos A, Mollnes T E (2006) Design of a complement mannose-binding lectin pathway-specific activation system applicable at low serum dilutions. *Clin Exp Immunol* 144:512-520.

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.