ANTIBODYSHOP®

PRODUCT SPECIFICATION

07/05/2014

Anti-MBL (human)

Mouse monoclonal antibody

Subclass: IgG1/k

CAT. NO. **HYB 131-11**

Clone:11C9

SPECIFICITY	HYB 131-11 is specific for MBL (mannan-binding lectin) from human serum or plasma.
IMMUNOGEN	MBL purified from human donor plasma
TESTED APPLICATIONS	ELISA, WB
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	The epitope is thought to be on the carbohydrate recognition domain and differs from that of HYB 131-01 and HYB 131-10.

PRESENTATION

Content:	Available in 200 µL and 1 mL size.1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8ºC without exposure to light. No precautions necessary during handling.

APPLICATION

ELISA: HYB 131-11 reacts strongly with MBL. Strong reaction is seen in ELISA with MBL coated directly onto the microtiter well. In Western blotting HYB 131-11 reacts with human MBL in both its oligomerized state and as single protein chain of 26 kDa. HYB 131-11 can be used to measure MBL in plasma or serum and is specific for oligomerized MBL when used in combination with itself, but not with other MBL antibodies, when it also reacts with poorly oligomerized forrms (1,2).
WB: HYB 131-11 can be used in Western blotting (3).
IP: HYB 131-11 can be used in immunoprecipitation (3).

TARGET

Mannan-binding lectin (MBL), also called mannose-binding lectin or protein, belongs to the C-type family of collectins, showing calcium-dependent binding to certain sugars. 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.

REFERENCES

1. Garred P, Larsen F, Madsen HO, Koch C (2003) Mannose-binding lectin deficiency - revisited. Mol Immunol 40:73-84.
2. Skjoedt OM, Palarasah Y, Munthe-Fog L, Ma YJ, Weiss G, Skjodt K, Koch C, Garred P (2010) MBL-associated serin protease-3 circulates in high serum concentrations predominantly in complex with Ficolin-3 and regulates Ficolin-3 medicated complement activation. Immunobiology 215:921-931.
3. Skjoedt MO, Hummelshoj T, Palarasah Y, Honore C, Koch C, Skjodt K, Garred P (2010) A Novel Mannose-binding Lectin/Ficolin-associated Protein Is Highly Expressed in Heart and Skeletal Muscle Tissues and Inhibits Complement Activation. J Biol Chem 285:8234-8243.

CONDITIONS

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