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Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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## Mouse anti-Human Mannose Binding Lectin (MBL)

**CL7304AP**

**Lot:** 12789M0113-B

**Description:** Mannose Binding Lectin (MBL) also called mannose- or mannan-binding protein (MBP) is a member of the group of collectins. MBL is an oligomeric lectin that recognizes carbohydrates as mannose and Nacetylglucosamine on pathogens. MBL contains a cysteine rich, a collagen like and a carbohydrate recognition domain. It forms a complex with C1r/C1s like serine proteases designated MASPs that proteolytically cleave C4, C2 and C3. MBL is able to activate the complement pathway independent of the classical and alternative complement activation pathways. The MBL-MASP pathway (better known as the lectin pathway) is antibody and C1q-independent. MBL exhibits complement-dependent antibacterial activity and acts directly as an opsonic and therefore plays an important role in innate immunity. MBL is synthesized by hepatocytes and has been isolated from the liver or serum of various vertebrate species.

**Species:** Mouse IgG<sub>1</sub>

**Formulation:** 1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide.

**Application:** The monoclonal antibody 3E7 can be used for blocking the complement-activating capacity of human MBL. The antibody 3E7 is useful for Western blotting and immuno assays. Furthermore the monoclonal antibody 3E7 is useful for immunohistology on frozen sections and flow cytometry. The antibody is not useful for staining of paraffin embedded sections.

**Use:** For Western blotting, flow cytometry and immunohistology dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. For neutralization of biological activity dilutions have to be made according to the amounts MBL to be inactivated.

**Storage:** Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.

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