



20150116ML

Anti-Mouse MBL-2 (#8M79)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M434
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with mouse recombinant protein of MBL-2.

Target Background

Synonyms (Target):	Mbl2; MBL; L-MBP; MBL-C; MBP-C
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Mannan binding lectin (MBL) belongs to the collectin family of innate immune defense proteins, which binds to an array of carbohydrate patterns on pathogen surfaces. Collectin family members share common structural features: a cysteine rich aminoterminal domain, a collagen like region, an α helical-coiled-coil neck domain and a carboxy terminal Ctype (Ca ++dependent) lectin or carbohydrate recognition domain (CRD). MBL homotrimerizes to form a structural unit joined by Nterminal disulfide bridges. These homotrimers further associates into oligomeric structures of up to 6 units. Whereas two forms of MBL proteins (MBL1, also known as SMBP or MBLA and MBL2, also known as LMBP or MBLC) exist in rodents and other animals, only one functional MBL protein is present in humans. Mouse MBL2 shares approximately 52% and 60% aa sequence identity with mouse MBL1 and human MBL, respectively. In mouse, MBL1 and MBL2 are the only collectins that can activate complement via the lectin complement pathway. Serum oligomeric MBL associates with MBL-associated serine protease (MASP) proenzymes.

Database References Target

Protein RefSeq:	NP_034906.1
Uniprot ID:	P41317
mRNA RefSeq:	NM_010776.1

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#8M79)
Isotype	IgG2
Purification	Protein A/G chromatography
Antigen	mouse recombinant protein of MBL-2
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody detects specifically mouse MBL-2 with WB

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB

Recommended usage:

WB: 1:100-500

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!