

Rat anti-Mouse MBL-A Monoclonal Antibody | anti-MBL-A antibody

MBL-A, Mouse, mAb 8G6

CATALOG # AAA77763	HOST Rat	REACTIVITY Mouse	APPLICATIONS Western Blot, Immunofluorescence, Immunohistochemistry
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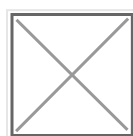
PRODUCT SYNONYMS

MBL-A; Monoclonal Antibody; Mouse; mAb 8G6; Mannose binding protein A; MBP-A; Ra-reactive factor polysaccharide-binding component p28B; RaRF p28B; MBL-1; anti-MBL-A antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG2a
Purity/Purification	Protein G
Form/Format	0.2 um filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide. For unit size 0.5 mg or larger: PBS only (concentration< 0.5mg/ml)
Concentration	100ug/ml (varies by lot)
Sequence Length	239
Applicable Applications for anti-MBL-A antibody	WB (Western Blot), IF (Immunofluorescence), IA (Immunoassay), IHC (Immunohistochemistry)
Immunogen	Purified mouse MBL-A
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

IMAGES



IHC (Immunohistochemistry)

MBL-A (8G6) deposition in developing murine atherosclerotic lesions. Staining of frozen tissue sections with antibody 8G6 (Cat. # AAA77763). Anti-mouse MBL-A at 2ug/ml (2h, RT). MBL-A was detected on the intima to media border as well as throughout the media (insert).

Furthermore, extensive MBL-A deposition was seen at sites of necrosis (upper right corner).

ADDITIONAL INFORMATION

Related Product Information for anti-MBL-A antibody	Product Description: Mannose Binding Lectin (MBL), also called mannosebinding protein (MBP), is a calcium dependent oligomeric protein that belongs to the collectin family of proteins. It contains a collagen-like domain and a carbohydrate recognition domain enabling MBL to recognize carbohydrates (such as mannose and N-acetylglucosamine) on pathogens. MBL is able to activate the complement pathway independent of the classical and alternative complement activation pathways, by using attached mannose binding lectin-associated serine proteases (MASP-2) in an antibody- and C1q-independent manner. MASP-2 permits cleavage of C4 and C2 to form a C3 convertase. Once it has bound, MBL exhibits complement-dependent antibacterial activities such as microbial opsonization and/or microbial lysis via membrane attack complexes and therefore plays an important role in innate immunity. In human, MBL is encoded by a single gene, whereas in mice there are two homologous proteins, termed MBL-A and MBL-C. The MBL-A concentration in serum is about 6-fold lower compared to that of MBL-C... MBL-A, but not MBL-C, was found to be an acute phase protein in casein and LPS-injection models. Moreover, it has been shown that MBL-A deficient mice have aberrant antigen-specific IgM responses and- suffer from increased susceptibility to infection. Note that the monoclonal antibody 8G6 is a calcium-dependent antibody.
References	1. Liu, H et al; Characterization and Quantification of Mouse Mannan-Binding Lectins (MBL-A and MBL-C) and Study of Acute Phase Responses. Scand J Immunol 2001, 53: 489 2. Windbichler, M et al; Investigations on the Involvement of the Lectin Pathway of Complement Activation in Anaphylaxis. Allergy and Immunol 2006,- 141: 11 3. Held, K et al; Increased susceptibility of complement factor B/C2 double knockout mice and mannan-binding lectin knockout mice to systemic infection with- candida albicans. Mol Immunol 2008, 45: 3934 4. Petry, F et al. Binding and activation of human and mouse complement by Cryptosporidium parvum (Apicomplexa) and susceptibility of C1q- and MBL-deficient mice to infection. Mol Immunol 2008, 45:3392 5. Abe, Y et al. Contribution of complement component C3 and complement receptor type 3 to carbohydrate-dependent uptake of oligomannose-coated liposomes by peritoneal macrophages. J. Bioch 2008, 144:563 6. Matthijsen, R et al; Macrophage-Specific Expression of Mannose-Binding Lectin Controls Atherosclerosis in Low-Density Lipoprotein Receptor Deficient Mice. Circulation 2009, 119:2188

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754654
NCBI GeneID	17194
NCBI Accession #	NP_034905.1
NCBI GenBank Nucleotide #	NM_010775.2
Molecular Weight	15,600 Da
NCBI Official Full Name	mannose-binding protein A
NCBI Official Synonym Full Names	mannose-binding lectin (protein A) 1
NCBI Official Symbol	Mbl1
NCBI Official Synonym Symbols	MBL-A; MBP-A; S-MBP
NCBI Protein Information	mannose-binding protein A; raRF p28B; mannan-binding protein; mannose binding lectin (A); mannose binding lectin, serum (A); ra-reactive factor polysaccharide-binding component p28B
UniProt Protein Name	Mannose-binding protein A
UniProt Gene Name	Mbl1
UniProt Synonym Gene Names	MBP-A; RaRF p28B
UniProt Entry Name	MBL1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/mbl-a-antibody-western-blot-immunofluorescence-immunoassay-immunohistochemistry-elisa/77763>