

Product datasheet for **AM26335PU-N**

Mbl1 Rat Monoclonal Antibody [Clone ID: 8G6]

Product data:

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|------------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 8G6 |
| Applications: | ELISA, IF, IHC, WB |
| Recommended Dilution: | Immunohistochemistry on frozen sections (2,6): Tissue sections were fixed in 4% PBS-buffered formaldehyde and pretreated with 2% hydrogen peroxide in methanol for 20 minutes at 4°C to quench endogenous peroxidases. Primary antibody 8g6, 2µg/ml. As negative control rat IgG2a was used (Ref.2). The typical starting working dilution is 1:50. Immunoassays (2). Immunofluorescence (3,4). Western blot (1): A non-reduced sample treatment was used. The band sizes are 191, 263 and 316 kDa (Ref.1). The typical starting working dilution is 1:50. |
| Reactivity: | Mouse |
| Host: | Rat |
| Isotype: | IgG |
| Clonality: | Monoclonal |
| Immunogen: | Purified mouse MBL-A |
| Specificity: | This antibody detects MBL-A. |
| Formulation: | PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide |
| Concentration: | lot specific |
| Purification: | Protein G |
| Conjugation: | Unconjugated |
| Gene Name: | mannose-binding lectin (protein A) 1 |
| Database Link: | Entrez Gene 17194 Mouse P39039 |


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Background:

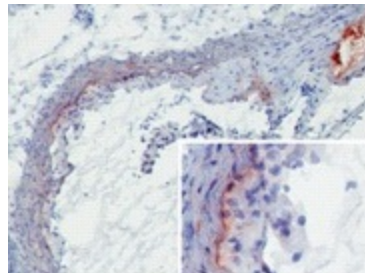
Mannose Binding Lectin (MBL), also called mannosebinding protein (MBP), is a calcium dependent oligomeric protein that belongs to the collectin family of proteins. It contains a collagen-like domain and a carbohydrate recognition domain enabling MBL to recognize carbohydrates (such as mannose and N-acetylglucosamine) 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.

Synonyms:

MBL-A; MBP-A; Mbpa; Mlb1; S-MBP

Note:

Note that the monoclonal antibody 8G6 is a calcium-dependent antibody.

Product images:


MBL-A (8G6) deposition in developing murine atherosclerotic lesions. Staining of frozen tissue sections with antibody 8G6. 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).