

Product datasheet

Anti-Mannan Binding Lectin/MBL antibody [14D12] ab106046

[6 References](#) [1 Image](#)

Overview

Product name	Anti-Mannan Binding Lectin/MBL antibody [14D12]
Description	Rat monoclonal [14D12] to Mannan Binding Lectin/MBL
Host species	Rat
Specificity	The immunogen for this antibody is from Mouse MBL-2 (MBL-C).
Tested applications	Suitable for: IHC-Fr
Species reactivity	Reacts with: Mouse
Immunogen	Full length native protein (purified) corresponding to Mouse Mannan Binding Lectin/MBL. The immunogen for this antibody is from Mouse MBL-2 (MBL-C). Database link: P41317
Positive control	IHC-P: Mouse Serum and kidney tissue
General notes	<p>It is recommended that solutions with a calcium concentration of 1 mM are used as ab106046 is a calcium-dependent antibody.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: 0.1% BSA, PBS
Purity	Protein G purified
Purification notes	0.2 µm filtered antibody solution
Clonality	Monoclonal

Clone number 14D12
Isotype IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab106046 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		1/10. Cryostat sections (7µm) of mouse tissue were acetone fixed and stained o/n at 4C in TBS/2% goat serum

Target

Function Calcium-dependent lectin involved in innate immune defense. Binds mannose, fucose and N-acetylglucosamine on different microorganisms and activates the lectin complement pathway. Binds to late apoptotic cells, as well as to apoptotic blebs and to necrotic cells, but not to early apoptotic cells, facilitating their uptake by macrophages. May bind DNA.

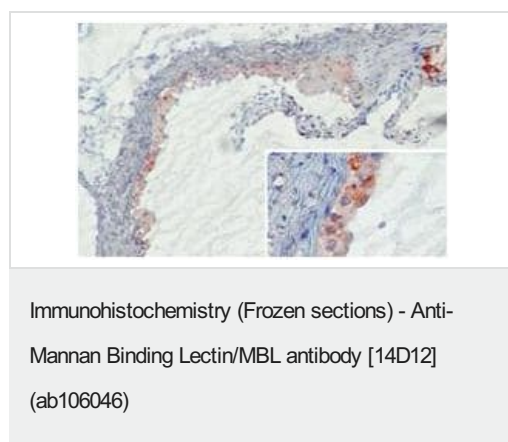
Tissue specificity Plasma protein produced mainly in the liver.

Involvement in disease Note=There is an association between low levels of MBL2 and a defect of opsonization which results in susceptibility to frequent and chronic infections.

Sequence similarities Contains 1 C-type lectin domain.
Contains 1 collagen-like domain.

Cellular localization Secreted.

Images



ab106046 detecting Mannan Binding Lectin/MBL deposition in developing murine atherosclerotic lesions following 10 weeks of high fat feeding. Mannan Binding Lectin/MBL was detected in and around invading macrophages invading the intima (insert). Mannan Binding Lectin/MBL bound at sites of necrosis (upper right corner). No Mannan Binding Lectin/MBL binding was shown in the media or on fibrous caps covering the thickened intima.

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