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MBL2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13736b

Product Information

Application	WB, IF, IHC-P, E
Primary Accession	P11226
Other Accession	NP_000233.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33717
Calculated MW	26144
Antigen Region	173-202

Additional Information

Gene ID	4153
Other Names	Mannose-binding protein C, MBP-C, Collectin-1, MBP1, Mannan-binding protein, Mannose-binding lectin, MBL2, COLEC1, MBL
Target/Specificity	This MBL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 173-202 amino acids from the C-terminal region of human MBL2.
Dilution	WB~~1:1000 IF~~1:10~50 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MBL2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MBL2 (HGNC:6922)
Function	Calcium-dependent lectin, which acts as a pattern recognition receptor that initiates the lectin pathway of the complement system, a cascade of proteins

	that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:14515269, PubMed:22966085, PubMed:7634089, PubMed:9087411). Specifically recognizes and binds the mannose moiety of carbohydrates on the pathogen surface, activating the MASP1 serine protease and initiating the proteolytic cascade of the lectin complement pathway (PubMed:22966085, PubMed:2573758, PubMed:6643429, PubMed:8082295, PubMed:9087411). Upon SARS coronavirus-2/SARS-CoV-2 infection, activates the complement lectin pathway which leads to the inhibition SARS-CoV-2 infection and a reduction of the induced inflammatory response (PubMed:35102342). May bind DNA (PubMed:15145932).
Cellular Location	Secreted. Cell surface. Note=Specifically binds mannose moiety of carbohydrates on the surface of pathogens.
Tissue Location	Plasma protein produced mainly in the liver.

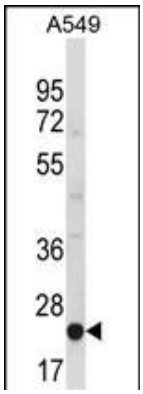
Background

This gene encodes the soluble mannose-binding lectin or mannose-binding protein found in serum. The protein encoded belongs to the collectin family and is an important element in the innate immune system. The protein recognizes mannose and N-acetylglucosamine on many microorganisms, and is capable of activating the classical complement pathway. Deficiencies of this gene have been associated with susceptibility to autoimmune and infectious diseases.

References

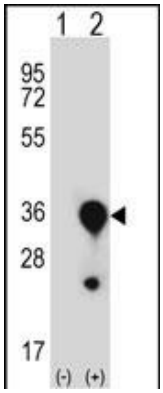
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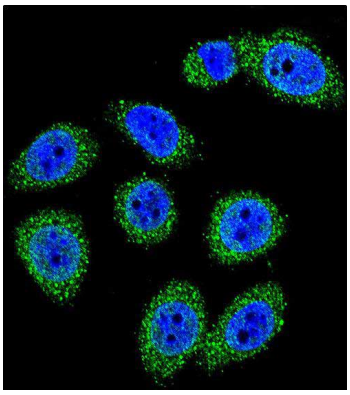
Images



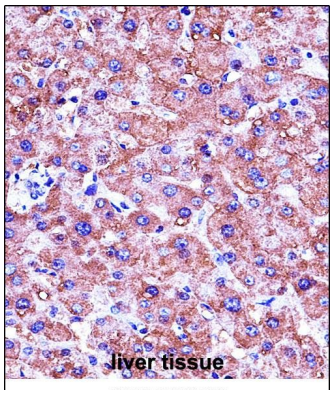
MBL2 Antibody (C-term) (Cat. #AP13736b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the MBL2 antibody detected the MBL2 protein (arrow).

Western blot analysis of MBL2 (arrow) using rabbit polyclonal MBL2 Antibody (C-term) (Cat. #AP13736b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the MBL2 gene.





Confocal immunofluorescent analysis of MBL2 Antibody (C-term)(Cat#AP13736b) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



MBL2 Antibody (C-term) (Cat. #AP13736b)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MBL2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- Derlin-3 Is Required for Changes in ERAD Complex Formation under ER Stress

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