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MBL2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5525

Product Information

Application	IHC-P, IF, WB
Primary Accession	P11226
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26144
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	4153
Antigen Region	188-222
Other Names	Mannose-binding protein C, MBP-C, Collectin-1, MBP1, Mannan-binding protein, Mannose-binding lectin, MBL2, COLEC1, MBL
Dilution	IHC-P~~1:100~500 IF~~1:10~50 WB~~1:1000
Target/Specificity	This MBL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 188-222 amino acids from the C-terminal region of human MBL2.
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.

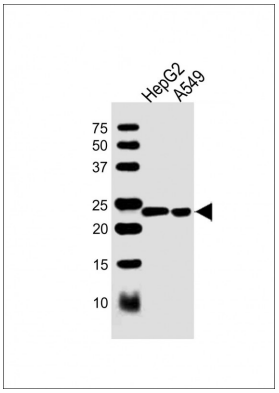
Background

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

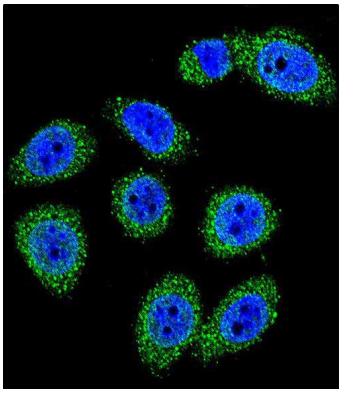
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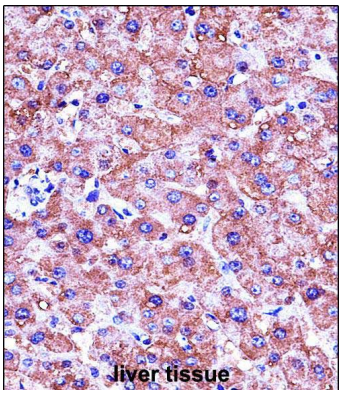
Images



All lanes : Anti-MBL2 Antibody (C-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Confocal immunofluorescent analysis of MBL2 Antibody (C-term)(Cat#AW5525) 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. #AW5525)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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.