10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MBL-C Polyclonal Antibody

Catalog # AP74003

Product Information

Application	WB, IHC-P
Primary Accession	P11226
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26144

Additional Information

Gene ID	4153
Other Names	MBL2 COLEC1 MBL
Dilution	WB~~WB 1:500-2000, ELISA 1:10000-20000 IHC-P~~WB 1:500-2000, ELISA 1:10000-20000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

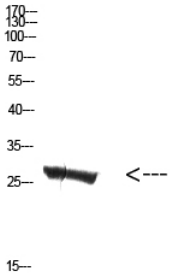
Protein Information

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.

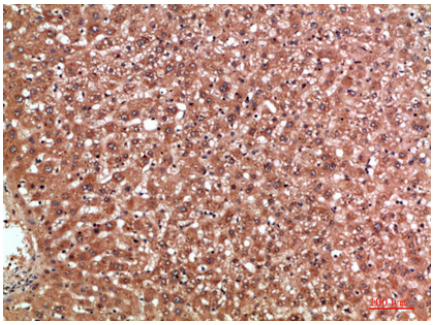
Background

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.

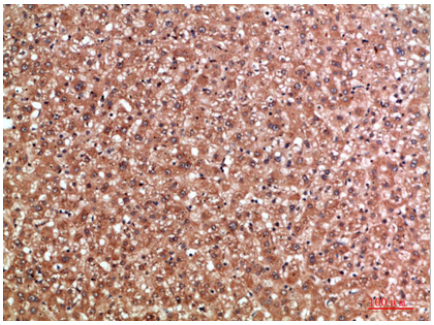
Images



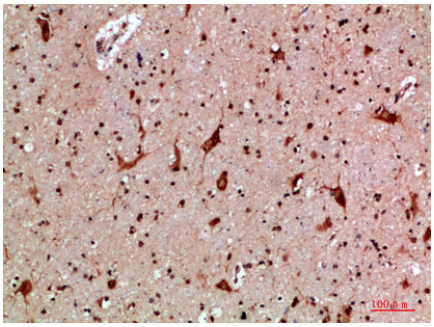
Western Blot analysis of mouse-kidney cells using Antibody diluted at 500. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:200

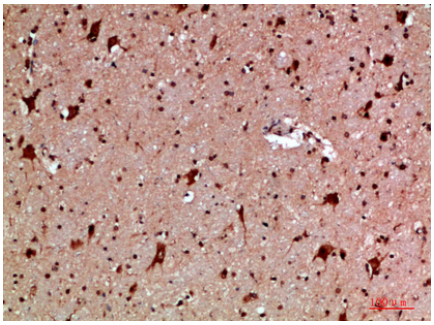


Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200

Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200



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