

Datasheet for ABIN6239795 MBL2 Protein (AA 130-248) (His tag,GST tag)

2 Images



Overview

Quantity:	50 µg
Target:	MBL2
Protein Characteristics:	AA 130-248
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This MBL2 protein is labelled with His tag,GST tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His and GST Tag
Purity:	> 97 %
Biological Activity Comment:	MBL2 (Mannose-binding protein C) is a calcium-dependent lectin involved in innate immune
	defense, which binds mannose, fucose and N-acetylglucosamine on different microorganisms,
	therefore results in activation of the lectin pathway of the complement system. It has been
	proven that MASP-2 (Mannan-binding lectin serine protease 2) forms complexes with the
	pattern recognition molecules MBL2, triggers the activation of the complement system. Thus, a
	functional binding ELISA assay was constructed to detect the association of rhMBL2 with
	MASP2. Briefly, rhMBL2 were diluted serially in 10mM Tris-HCI, 1M NaCI, 5mM CaCl2, and
	0.05%Triton X-100 (pH 7.4). Duplicate samples of 100uL were then transferred to MASP2-
	coated microtiter wells and incubated for 2h at 37oC. Wells were washed with PBST and
	incubated for 1h with anti-MBL2 mAb, then aspirated and washed 3 times. After incubation with

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Target Details

Target:	MBL2
Alternative Name:	Mannose Binding Lectin (MBL) (MBL2 Products)
Background:	Alternative Names: MBL2, COLEC1, HSMBPC, MBP1, MBP, Collectin-1, Mannose-binding protein C, Mannan Binding Protein, Mannose-Binding Lectin(Protein C)2,Soluble(Opsonic Defect)
Molecular Weight:	43kDa
UniProt:	P11226
Pathways:	Complement System, Positive Regulation of Immune Effector Process

Application Details

Application Notes:	Isoelectric Point: 5.8
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

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Figure 1. The binding activity of MBL2 with MASP2.



Image 1. The binding activity of MBL2 with MASP2 and this effect was in a dose dependent manner. MBL2 (Mannosebinding protein C) is a calcium-dependent lectin involved in innate immune defense, which binds mannose, fucose and N-acetylglucosamine on different microorganisms, therefore results in activation of the lectin pathway of the complement system. It has been proven that MASP-2 (Mannan-binding lectin serine protease 2) forms complexes with the pattern recognition molecules MBL2, triggers the activation of the complement system. Thus, a functional binding ELISA assay was constructed to detect the association of rhMBL2 with MASP2. Briefly, rhMBL2 were diluted serially in 10mM Tris-HCl, 1M NaCl, 5mM CaCl2, and 0.05%Triton X-100 (pH 7.4). Duplicate samples of 100uL were then transferred to MASP2-coated microtiter wells and incubated for 2h at 37oC. Wells were washed with PBST and incubated for 1h with anti-MBL2 mAb, then aspirated and washed 3 times. After incubation with HRP labeled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution , wells were incubated for 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately.

Image 2.

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