

Datasheet for ABIN2859303

MBL2 ELISA Kit





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Overview

Quantity:	96 tests
Target:	MBL2
Binding Specificity:	AA 19-244
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	312-20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse MBL2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: E19-D244
Specificity:	Expression system for standard: NSO Immunogen sequence: E19-D244
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	MBL2
Alternative Name:	MBL2 (MBL2 Products)
Background:	Protein 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 (By
	similarity)
	Background: MBL2, also called mannose-binding lectin (protein C) 2, soluble or Mannose-
	binding lectin (MBL) is a lectin that is instrumental in innate immunity. MBL2 is mapped to
	chromosome 10q11.2-q21. It belongs to the class of collectins in the C-type lectin superfamily,
	whose function appears to be pattern recognition in the first line of defense in the pre-immune
	host. MBL2 recognizes carbohydrate patterns, found on the surface of a large number of
	pathogenic micro-organisms, including bacteria, viruses, protozoa and fungi. Binding MBL2 to a
	micro-organism results in activation of the lectin pathway of the complement system. Another
	important function of MBL2 is that this molecule binds senescent and apoptotic cells and
	enhances engulfment of whole, intact apoptotic cells, as well as cell debris by phagocytes.
	Synonyms: Mannose-binding protein C,MBP-C,Mannan-binding protein,RA-reactive factor P28A
	subunit,RARF/P28A,Mbl2,
	Full Gene Name: Mannose-binding protein C
	Cellular Localisation: Secreted.
Gene ID:	17195
UniProt:	P41317
Pathways:	Complement System, Positive Regulation of Immune Effector Process
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

Application Details

	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Contains 1 C-type lectin domain.
Plate:	Pre-coated
Protocol:	mouse MBL2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat specific for MBL2 has been precoated onto
	96-well plates. Standards(NSO, E19-D244) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for MBL2 is added subsequently
	and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was
	added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate
	TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a
	blue color product that changed into yellow after adding acidic stop solution. The density of
	yellow is proportional to the mouse MBL2 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 20000pg/mL, 10000pg/mL, 5000pg/mL, 2500pg/mL,
	1250pg/mL, 625pg/mL, 312pg/mL mouse MBL2 standard solutions into the precoated 96-well
	plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of
	each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin,
	EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended
	that each mouse MBL2 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 3.2, Standard deviation: 0.157, CV(%): 4.9
	Sample 2: n=16, Mean(ng/ml): 8.4, Standard deviation: 0.378, CV(%): 4.5
	Sample 3: n=16, Mean(ng/ml): 12.8, Standard deviation: 0.474, CV(%): 3.7, Output la 1 ap. 0.4 Macar (ap. (ap.) 2.6, Otto plant deviation: 0.00, OV(%)), 6.4
	 Sample 1: n=24, Mean(ng/ml): 3.6, Standard deviation: 0.23, CV(%): 6.4 Sample 2: n=24, Mean(ng/ml): 8.9, Standard deviation: 0.516, CV(%): 5.8
	• Sample 3: n=24, Mean(ng/ml): 13.1, Standard deviation: 0.707, CV(%): 5.4
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Mouse MBL2 ELISA Kit 10 0.01 1000 10000 100000 Concentration(pg/ml)

ELISA

Image 1. Mouse MBL2 PicoKine ELISA Kit standard curve