abcam

Product datasheet

Mouse MBL ELISA Kit ab208343

Recombinant SimpleStep ELISA

9 Images

Overview					
Product name	Mouse MBL ELISA Kit				
Detection method	Colorimetric				
Precision					Intra-assay
	Sample	n	Mean	SD	CV%
	Mouse serum	5			7.3%
					Inter-assay
	Sample	n	Mean	SD	CV%
	Mouse serum	4			14%
Sample type	Cell culture supernatant, Serum, Plasma, Cell culture extracts, Tissue Extracts				
Assay type	Sandwich (quantitative)				
Sensitivity	8.5 pg/ml				
Range	39.063 pg/ml - 2500 pg/ml				
Recovery				S	ample specific recovery
	Sample type	Aver	age %	Range	
	Serum	79.5		75% - 86.8%	6
	Cell culture media	99.7		95.4% - 103	.3%
	Hep Plasma	96.6		88.8% - 101	.2%

94.9

102.7

1h 30m

One step assay

EDTA Plasma

Cit plasma

74.1% - 102.3%

90.8% - 117.3%

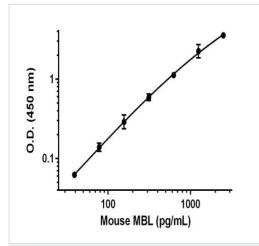
Species reactivity	Reacts with: Mouse Does not react with: Goat, Cow, Pig			
Product overview	Mouse MBL ELISA Kit (ab208343) is a single-wash 90 min sa quantitative measurement of MBL protein in cell culture superr extracts, and cell culture extracts. It uses our proprietary Simpl Quantitate Mouse MBL with 8.5 pg/ml sensitivity.	natant, serum, plasma, tissue		
	SimpleStep ELISA® technology employs capture antibodies or recognized by the monoclonal antibody used to coat our Simp approach to sandwich ELISA allows the formation of the antib single step, significantly reducing assay time. See the Simples the image section for further details. Our SimpleStep ELISA® benefits:	leStep ELISA® plates. This ody-analyte sandwich complex in a Step ELISA® protocol summary in		
	- Single-wash protocol reduces assay time to 90 minutes			
	 High sensitivity, specificity and reproducibility from superior antibodies Fully validated in biological samples 			
	- 96-wells plate breakable into 12 x 8 wells strips			
	A 384-well SimpleStep ELISA® microplate (ab203359) is ava 96-well microplate provided with SimpleStep ELISA® kits.	ailable to use as an alternative to the		
Notes	MBL is a secreted calcium-dependent lectin involved in innate mannose, fucose and N-acetylglucosamine on different micro complement pathway. MBL binds to late apoptotic cells, as we necrotic cells, but not to early apoptotic cells, facilitating their u	organisms and activates the lectin ell as to apoptotic blebs and to		
	Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of			
	products that contain European Authorisation list (Annex XIV) substances.			
	It is the responsibility of our customers to check the necessity			
Platform	Authorisation, and any other relevant authorisations, for their ir Pre-coated microplate (12 x 8 well strips)	ntended uses.		
Properties				
Storage instructions	Store at +4°C. Please refer to protocols.			
Components		1 x 96 tests		
10X Mouse MBL Capture An	tibody	1 x 600µl		
10X Mouse MBL Detector Ar	ntibody	1 x 600µl		

Storage instructions Store at +4°C. Please ref	er to protocols.
Components	1 x 96 tests
10X Mouse MBL Capture Antibody	1 x 600µl
10X Mouse MBL Detector Antibody	1 x 600µl
10X Wash Buffer PT (ab206977)	1 x 20ml
50X Cell Extraction Enhancer Solution (ab193971)	1 x 1ml
5X Cell Extraction Buffer PTR (ab193970)	1 x 10ml
Antibody Diluent 5BR	1 x 6ml

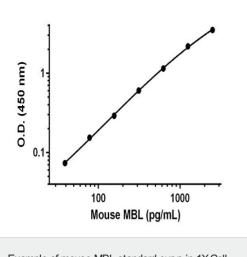
Components	1 x 96 tests	
Mouse MBL Lyophilized Recombinant Protein		2 vials
Plate Seals	1 unit	
Sample Diluent NS (ab193972)		1 x 50ml
SimpleStep Pre-Coated 96-Well Microplate (ab206978)		1 unit
Stop Solution		1 x 12ml
TMB Development Solution		1 x 12ml
Function	Calcium-dependent lectin involved in innate immune de acetylglucosamine on different microorganisms and act Binds to late apoptotic cells, as well as to apoptotic ble apoptotic cells, facilitating their uptake by macrophages	tivates the lectin complement pathway. bs and to necrotic cells, but not to early

	apoptotic cells, facilitating their uptake by macrophages. May bind DNA.	
Tissue specificity	Plasma protein produced mainly in the liver.	
Involvement in disease	Note=There is an association between low levels of MBL2 and a defect of opsonization which results in susceptibility to frequent and chronic infections.	
Sequence similarities	Contains 1 C-type lectin domain. Contains 1 collagen-like domain.	
Cellular localization	Secreted.	

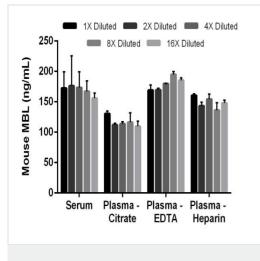
Images



Example of mouse MBL standard curve in Sample Diluent NS Background-subtracted data values (mean +/- SD) are graphed.



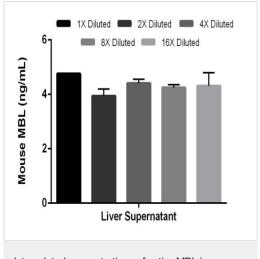
Example of mouse MBL standard curve in 1X Cell Extraction Buffer PTR



Interpolated concentrations of native MBL in mouse serum and plasma samples

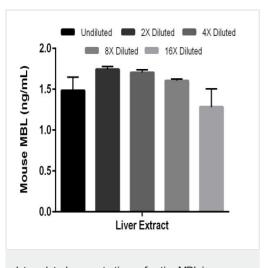
Background-subtracted data values (mean +/- SD) are graphed.

The concentrations of MBL were measured in duplicates, interpolated from the MBL standard curves and corrected for sample dilution. 1X diluted samples are pre-diluted as follows: serum 1:83, plasma (citrate) 1:83, plasma (EDTA) 1:167, plasma (heparin) 1:167. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean MBL concentration was determined to be 169.0 ng/mL in serum, 116.5 ng/mL in plasma (citrate), 179.8 ng/mL in plasma (EDTA) and 148.4 ng/mL in plasma (heparin).

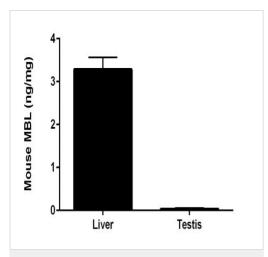


Mouse liver cells were cultured for 5 days in a medium and supernatant sample was prepared. The concentrations of MBL were measured in duplicates, interpolated from the MBL standard curves and corrected for sample dilution. 1X diluted samples are pre-diluted as follows: liver supernatant 50%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean MBL concentration was determined to be 4.3 ng/mL in liver supernatant.

Interpolated concentrations of native MBL in mouse liver supernatant samples

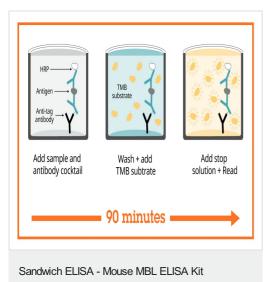


Interpolated concentrations of native MBL in mouse liver extract samples based on a 500 μ g/mL extract load



Interpolated concentrations of native MBL in mouse liver and testis extract samples The concentrations of MBL were measured in duplicate and interpolated from the MBL standard curve and corrected for sample dilution. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean MBL concentration was determined to be 1.56 ng/mL in liver extract sample.

The concentrations of MBL were measured in three different dilutions in duplicate and interpolated from the MBL standard curve and corrected for sample dilution. The interpolated dilution factor corrected values are plotted in ng of MBL per mg of extract (mean +/- SD, n=3).



Powered by recombinant antibodies

Long-term and scalable supply

Recombinant technology

compliant

Animal-free

production

SimpleStep ELISA technology allows the formation of the antibodyantigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.

To learn more about the advantages of recombinant antibodies see **here**.

Sandwich ELISA - Mouse MBL ELISA Kit

Success from the Ethical standards

Research with

confidence

Consistent and reproducible results

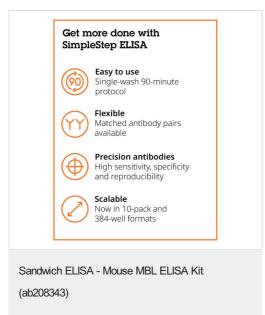
first experiment

Confirmed

specificity

(ab208343)

(ab208343)



To learn more about the advantages of SimpleStep ELISA[®] kits see **here**.

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