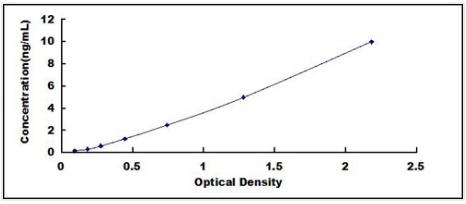
Mannose Binding Lectin (MBL) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Mannose Binding Lectin (MBL), ELISA Kit
Full Product Name	Human Mannose Binding Lectin (MBL) ELISA Kit
Product Gene Name	MBL elisa kit
Product Synonym Names	MBL2; COLEC1; HSMBPC; MBP1; MBP; Collectin-1; Mannose-binding protein C; Mannan Binding Protein; Mannose-Binding Lectin(Protein C)2,Soluble(Opsonic Defect)
Species Reactivity	Human
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.069ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Mannose Binding Lectin (MBL). No significant cross-reactivity or interference between Mannose Binding Lectin (MBL) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	3,557 Da
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Mannose Binding Lectin (MBL) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Mannose Binding Lectin (MBL) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.
Related Product Information for MBL elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mannose Binding Lectin (MBL). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mannose Binding Lectin (MBL). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mannose Binding Lectin (MBL), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Mannose Binding Lectin (MBL) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Other Notes	Small volumes of MBL elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MBL purchase	MBS2703345 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Mannose Binding Lectin (MBL) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MBL. The ELISA analytical biochemical technique of the MBS2703345 kit is based on MBL antibody-MBL antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MBL antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MBL. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of MBL elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MBL. It may not necessarily be applicable to this product.

NCBI GI #	169335948
NCBI GeneID	4153
NCBI Accession #	ACA48258.2
UniProt Related Accession #	P11226
NCBI Official Full Name	mannose binding lectin, partial
NCBI Official Synonym Full Names	mannose binding lectin 2
NCBI Official Symbol	MBL2
NCBI Official Synonym Symbols	MBL; MBP; MBP1; MBPD; MBL2D; MBP-C; COLEC1; HSMBPC
UniProt Protein Name	Mannose binding lectin
UniProt Synonym Protein Names	Mannose binding lectin
Protein Family	Mannose-binding protein
UniProt Gene Name	MBL2
NCBI Protein Information	mannose-binding protein C
NCBI Summary for MBL	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. [provided by RefSeq, Jul 2008]
Research Articles on MBL	**1.** the findings of the current study obtained on mother and children from Zambia evidence lack of association between MBL2 functional polymorphisms and HIV-1 mother-to-child transmission
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