Mannose Binding Lectin C (MBL-C) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Mannose Binding Lectin C (MBL-C), ELISA Kit
Full Product Name	Mouse Mannose Binding Lectin C ELISA Kit
Product Gene Name	MBL-C elisa kit
Species Reactivity	Mouse
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	166,012 Da
OMIM	153618
3D Structure	ModBase 3D Structure for P22897
Related Product Information for MBL-C elisa kit	MBS029306 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Mannose Binding Lectin C (MBL-C) 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-C. The ELISA analytical biochemical technique of the MBS029306 kit is based on MBL-C antibody-MBL-C antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MBL-C antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MBL-C. 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(%).
Other Notes	Small volumes of MBL-C 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.

ADDITIONAL DETAILS

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

NCBI GI #	126730
NCBI GeneID	4360
NCBI Accession #	P22897.1
UniProt Primary Accession #	P22897
UniProt Secondary Accession #	Q5VSJ2; Q5VSK2; A5PKW3
UniProt Related Accession #	P22897
NCBI Official Full Name	Macrophage mannose receptor 1
NCBI Official Synonym Full Names	mannose receptor, C type 1
NCBI Official Symbol	MRC1
NCBI Official Synonym Symbols	MMR; CD206; MRC1L1; CLEC13D; CLEC13DL; bA541I19.1
UniProt Protein Name	Macrophage mannose receptor 1
UniProt Synonym Protein Names	C-type lectin domain family 13 member D; C-type lectin domain family 13 member D-like; Macrophage mannose receptor 1-like protein 1

UniProt Gene Name	MRC1
UniProt Synonym Gene Names	CLEC13D; CLEC13DL; MRC1L1; MMR
UniProt Entry Name	MRC1_HUMAN
NCBI Protein Information	macrophage mannose receptor 1; mannose receptor, C type 1-like 1; C-type lectin domain family 13 member D; macrophage mannose receptor 1-like protein 1
NCBI Summary for MBL-C	The recognition of complex carbohydrate structures on glycoproteins is an important part of several biological processes, including cell-cell recognition, serum glycoprotein turnover, and neutralization of pathogens. The protein encoded by this gene is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages. The protein has been shown to bind high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi so that they can be neutralized by phagocytic engulfment.[provided by RefSeq, Apr 2011]
UniProt Comments for MBL-C	MRC1: Mediates the endocytosis of glycoproteins by macrophages. Binds both sulfated and non-sulfated polysaccharide chains. Acts as phagocytic receptor for bacteria, fungi and other pathogens. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 10p12.33 Cellular Component: cell surface; integral to plasma membrane; plasma membrane; endosome membrane Molecular Function: mannose binding; protein binding; transmembrane receptor activity; receptor activity Biological Process: receptor-mediated endocytosis; signal transduction
Research Articles on MBL-C	**1.** The MRC1/CD68 ratio is positively associated with adipose tissue lipogenesis and with muscle mitochondrial gene expression in humans.
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