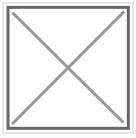
C1qb (Complement C1q Subcomponent Subunit B) (C1QB) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	C1qb (Complement C1q subcomponent subunit B), ELISA Kit
Full Product Name	Mouse C1qb (Complement C1q subcomponent subunit B) ELISA Kit
Product Gene Name	C1qb elisa kit
Product Synonym Names	Complement C1q subcomponent subunit B; C1qb
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of C1qb. No significant cross-reactivity or interference between C1qb and analogues was observed.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Inter-assay Precision	CV<10%
Intra-assay Precision	CV<8%
Molecular Weight	~54kD (SDS-PAGE)
Chromosome Location	Chromosome: 4; NC_000070.6 (136880145..136886177, complement). Location: 4 D3; 4 69.05 cM
3D Structure	ModBase 3D Structure for P14106
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for C1qb elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Capture antibody was pre-coated onto 96- well plates. And the biotin conjugated antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP -Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 target amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of target can be calculated.
Other Notes	Small volumes of C1qb 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 C1qb purchase	MBS7615563 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the C1qb (Complement C1q subcomponent subunit B) 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 C1qb. The ELISA analytical biochemical technique of the MBS7615563 kit is based on C1qb antibody-C1qb antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect C1qb antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, C1qb. 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 C1qb elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C1qb. It may not necessarily be applicable to this product.

NCBI GI #	408359989
NCBI GeneID	12260
NCBI Accession #	P14106.2
UniProt Primary Accession #	P14106
UniProt Secondary Accession #	Q3U793
UniProt Related Accession #	P14106
NCBI Official Full Name	Complement C1q subcomponent subunit B
NCBI Official Synonym Full Names	complement component 1, q subcomponent, beta polypeptide
NCBI Official Symbol	C1qb
UniProt Protein Name	Complement C1q subcomponent subunit B
Protein Family	Complement C1q subcomponent
UniProt Gene Name	C1qb
UniProt Entry Name	C1QB_MOUSE
NCBI Protein Information	complement C1q subcomponent subunit B
UniProt Comments for C1qb	C1QB: C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complement system. The collagen-like regions of C1q interact with the Ca(2+)-dependent C1r(2)C1s(2) proenzyme complex, and efficient activation of C1 takes place on interaction of the globular heads of C1q with the Fc regions of IgG or IgM antibody present in immune complexes. Defects in C1QB are a cause of complement component C1q deficiency (C1QD). A rare defect resulting in C1 deficiency and impaired activation of the complement classical pathway. C1 deficiency generally leads to severe immune complex disease with features of systemic lupus erythematosus and glomerulonephritis. Protein type: Secreted; Secreted, signal peptide Cellular Component: collagen; extracellular region; complement component C1 complex Molecular Function: protein homodimerization activity Biological Process: immune system process; innate immune response; inner ear development; complement activation, classical pathway
Research Articles on C1qb	**1.** analysis of the molecular mechanisms for synchronized transcription of three complement C1q subunit genes (A, B and C) in dendritic cells and macrophages
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