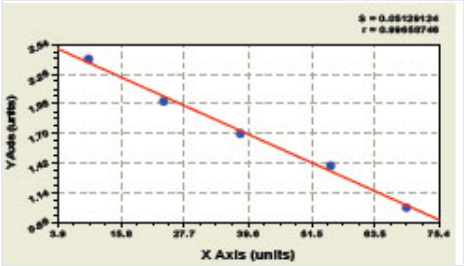
Complement Component 8b (C8BETA) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Complement Component 8b (C8beta), ELISA Kit
Full Product Name	Human Complement Component 8b ELISA Kit
Product Gene Name	C8beta elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	0.5-10ng/mL
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	67,047 Da
OMIM	gene 613789
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for C8beta elisa kit	Immunology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for C8beta elisa kit	**For samples:** Serum, plasma, cell culture supernatants, body fluid and tissue homogenate **INTENDED USE** This C8b ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human C8b. This ELISA kit for research use only! **PRINCIPLE OF THE ASSAY** C8b ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-C8b antibody and an C8b-HRP conjugate. The assay sample and buffer are incubated together with C8b-HRP conjugat e inpre-coated plate for one hour. After the incubation period, the wells a redecanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the C8b concentration since C8b from samples and C8b-HRP conjugate compete for the anti-C8b antibody binding site. Since the number of sites is limited, as more sites are occupied by C8b from the sample, fewer sites are left to bind C8b-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The C8b concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of C8beta 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 C8beta purchase	MBS725911 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Complement Component 8b (C8beta) 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 C8beta. The ELISA analytical biochemical technique of the MBS725911 kit is based on C8beta antibody-C8beta antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect C8beta antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, C8beta. 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 C8beta elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C8beta. It may not necessarily be applicable to this product.

NCBI GI #	514239920
NCBI GeneID	732
NCBI Accession #	NP_001265473.1
UniProt Secondary Accession #	A1L4K7
UniProt Related Accession #	P07358
GenBank Nucleotide #	NM_001278544.1
NCBI Official Full Name	complement component C8 beta chain isoform 3
NCBI Official Synonym Full Names	complement component 8, beta polypeptide
NCBI Official Symbol	C8B
NCBI Official Synonym Symbols	C82
UniProt Protein Name	Complement component C8 beta chain
UniProt Synonym Protein Names	Complement component 8 subunit beta
UniProt Gene Name	C8B
UniProt Entry Name	CO8B_HUMAN
NCBI Protein Information	complement component C8 beta chain; complement component 8 subunit beta
NCBI Summary for C8beta	This gene encodes one of the three subunits of the complement component 8 (C8) protein. C8 is composed of equimolar amounts of alpha, beta and gamma subunits, which are encoded by three separate genes. C8 is one component of the membrane attack complex, which mediates cell lysis, and it initiates membrane penetration of the complex. This protein mediates the interaction of C8 with the C5b-7 membrane attack complex precursor. In humans deficiency of this protein is associated with increased risk of meningococcal infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]

UniProt Comments for C8beta	C8B: Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells. Defects in C8B are a cause of complement component 8 deficiency type 2 (C8D2). A rare defect of the complement classical pathway associated with susceptibility to severe recurrent infections, predominantly by Neisseria gonorrhoeae or Neisseria meningitidis. Belongs to the complement C6/C7/C8/C9 family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 1p32.2 Cellular Component: membrane attack complex; extracellular space; membrane; extracellular region; vesicle Molecular Function: protein complex binding Biological Process: cytolysis; complement activation, alternative pathway; regulation of complement activation; innate immune response; immune response; complement activation, classical pathway; complement activation Disease: Complement Component 8 Deficiency, Type Ii
Research Articles on C8beta	**1.** Observational study of gene-disease association and gene-gene interaction. (HuGE Navigator)
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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