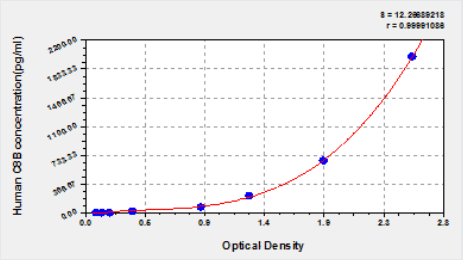
Complement Component 8, Beta Poly (C8B) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	complement component 8, beta polypeptide (C8B), ELISA Kit
Full Product Name	Human Complement component C8 beta chain, C8B ELISA Kit
Product Gene Name	C8B elisa kit
Product Synonym Names	Human Complement component C8 beta chain (C8B) ELISA kit; MGC163447; ; complement component 8; beta polypeptide
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	2.74 pg/ml-2000 pg/ml
Sensitivity	Typically less than 1.37 pg/ml.
Specificity	This assay has high sensitivity and excellent specificity for detection of human C8B. No significant cross-reactivity or interference between human C8B and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess
Molecular Weight	67,047 Da
OMIM	gene 613789
3D Structure	ModBase 3D Structure for P07358
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for C8B elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for C8B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any C8B present is bound by the immobilized antibody. After removing any unbound substances, a Horseradish Peroxidase (HRP)-conjugated antibody specific for C8B is added to the wells. Following a wash to remove any unbound reagent, a substrate solution is added to the wells and color develops in proportion to the amount of C8B bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of C8B 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 C8B purchase	MBS932422 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the complement component 8, beta polypeptide (C8B) 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 C8B. The ELISA analytical biochemical technique of the MBS932422 kit is based on C8B antibody-C8B antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect C8B antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, C8B. 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 C8B elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C8B. It may not necessarily be applicable to this product.

NCBI GI #	514239916
NCBI GeneID	732
NCBI Accession #	NP_000057.2
UniProt Primary Accession #	P07358
UniProt Secondary Accession #	A1L4K7
UniProt Related Accession #	P07358
GenBank Nucleotide #	NM_000066.3
NCBI Official Full Name	complement component C8 beta chain isoform 1 preproprotein
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
Protein Family	Complement component
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 C8B	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 C8B	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; Secreted, signal peptide 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 C8B	**1.** Observational study of gene-disease association and gene-gene interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/c8b-human-elisa-kits/complement-component-8-beta-polypeptide/932422