Complement Component C8 Alpha Chain (C8A) ELISA Kit for Human

PRODUCT OVERVIEW

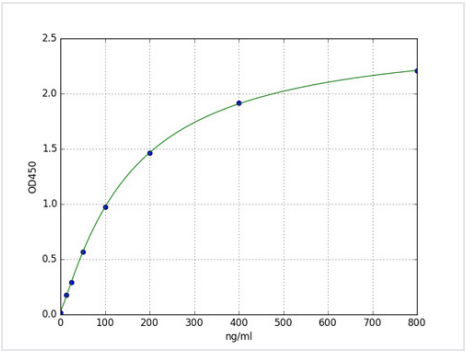
Product Name	Complement component C8 alpha chain (C8A), ELISA Kit
Full Product Name	Human Complement component C8 alpha chain ELISA Kit
Product Gene Name	C8A elisa kit
Product Synonym Names	C8A (Complement component C8 alpha chain)
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	12.5-800ng/ml
Sensitivity	7.5ng/ml
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
Molecular Weight	65,163 Da
OMIM	120950
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for C8A elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human C8Aantibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human C8A antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRPStreptavidin 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 Human C8A amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration ofHuman C8Acan be calculated.
Other Notes	Small volumes of C8A 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 C8A purchase	MBS765212 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Complement component C8 alpha chain (C8A) 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 C8A. The ELISA analytical biochemical technique of the MBS765212 kit is based on C8A antibody-C8A antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect C8A antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, C8A. 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 Data & Standard Curve

Results of a typical standard run of a Human C8A ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	12.5	25	50	100	200	400	800
Y	OD450	0.053	0.103	0.132	0.245	0.438	0.827	1.483	2.474

Typical Testing Data of C8A elisa kit



Typical Standard Curve of C8A elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C8A. It may not necessarily be applicable to this product.

NCBI GI #	4557389
NCBI GeneID	731
NCBI Accession #	NP_000553.1
UniProt Secondary Accession #	Q13668; Q9H130; A2RUI4; A2RUI5
UniProt Related Accession #	P07357
GenBank Nucleotide #	NM_000562.2
NCBI Official Full Name	complement component C8 alpha chain preproprotein
NCBI Official Synonym Full Names	complement component 8, alpha polypeptide
NCBI Official Symbol	C8A
UniProt Protein Name	Complement component C8 alpha chain
UniProt Synonym Protein Names	Complement component 8 subunit alpha
Protein Family	Complement component
UniProt Gene Name	C8A
UniProt Entry Name	CO8A_HUMAN
NCBI Protein Information	complement component C8 alpha chain
NCBI Summary for C8A	C8 is a component of the complement system and contains three polypeptides, alpha, beta and gamma. This gene encodes the alpha subunit of C8. C8 participates in the formation of the membrane attack complex (MAC). The MAC assembles on bacterial membranes to form a pore, permitting disruption of bacterial membrane organization. Mutations in this gene cause complement C8 alpha-gamma deficiency. [provided by RefSeq, Nov 2008]

UniProt Comments for C8A	C8A: 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. C8A inserts into the target membrane, but does not form pores by itself. Defects in C8A are a cause of complement component 8 deficiency type 1 (C8D1). 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: Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 1p32 Cellular Component: extracellular region; extracellular space; membrane; membrane attack complex Molecular Function: complement binding; protein complex binding Biological Process: complement activation; complement activation, alternative pathway; complement activation, classical pathway; cytolysis; immune response; innate immune response; regulation of complement activation Disease: Complement Component 8 Deficiency, Type I
Research Articles on C8A	**1.** C8 alpha and C8 beta have correspondingly similar roles in MAC-mediated lysis of erythrocytes and bacterial killing. C8 gamma is not required for complement-mediated killing of Gram-negative bacteria.
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