Complement Component C8 Alpha Chain (C8A) ELISA Kit for Guinea Pig

PRODUCT OVERVIEW

Product Name	Complement component C8 alpha chain (C8A), ELISA Kit
Full Product Name	Guinea pig Complement component C8 alpha chain (C8A) ELISA Kit
Product Gene Name	C8A elisa kit
Species Reactivity	Guinea Pig
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	65,163 Da
OMIM	gene 613790
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 C8A elisa kit	Immunology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for C8A elisa kit	MBS7246206 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 MBS7246206 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(%).
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.

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
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; complement component 8 subunit alpha
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: membrane attack complex; extracellular space; membrane; extracellular region Molecular Function: complement binding; 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 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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