C8B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	C8B, Polyclonal Antibody
Full Product Name	C8B, CT (C8B, Complement component C8 beta chain, Complement component 8 subunit beta) (MaxLight 490)
Product Gene Name	anti-C8B antibody
Product Synonym Names	C8B; Complement component C8 beta chain; Complement component 8 subunit beta
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	67,047 Da
OMIM	120960
3D Structure	ModBase 3D Structure for P07358
Immunogen	C8B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 393-422 amino acids from the C-terminal region of human C8B.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-C8B antibody	Antibodies; Complement
Applications Tested/Suitable for anti-C8B antibody	Western Blot (WB), FLISA
Application Notes for anti-C8B antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-C8B antibody	C8 beta is one of the three subunits that comprise the component 8 (C8) of the complement system. C8 participates in the formation of Membrane Attack Complex that results in the lysis of cells. Patients with C8B deficiency are prone to bacteria infection.
Product References and Citations for anti-C8B antibody	Han, S., et al. Hum. Immunol. 71(7):727-730(2010). Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010). Davila, S., et al. Genes Immun. 11(3):232-238(2010). Gancz, D., et al. Mol. Immunol. 47 (2-3), 310-317 (2009): Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 18(5):1651-1658(2009).
Other Notes	Small volumes of anti-C8B antibody 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	MBS6280095 is an antibody targeting C8B. Also known as C8B, CT (C8B, Complement component C8 beta chain, Complement component 8 subunit beta) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4557391
NCBI GeneID	732
NCBI Accession #	NP_000057.1
UniProt Primary Accession #	P07358
UniProt Secondary Accession #	A1L4K7
UniProt Related Accession #	P07358
GenBank Nucleotide #	NM_000066.2
NCBI Official Full Name	complement component C8 beta chain 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, 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 C8B	**1.** Observational study of gene-disease association and gene-gene interaction. (HuGE Navigator)

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