C7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	C7, Polyclonal Antibody
Full Product Name	C7, ID (C7, Complement component C7) (MaxLight 550)
Product Gene Name	anti-C7 antibody
Product Synonym Names	C7; Complement component C7
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 MaxLight550.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human C7.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	93,518 Da
OMIM	217070
3D Structure	ModBase 3D Structure for P10643
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 375-403 in the central region of human C7, UniProt Accession #P10643.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-C7 antibody	Antibodies; Complement
Applications Tested/Suitable for anti-C7 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-C7 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-C7 antibody	MBS6280041 is an antibody targeting C7. Also known as C7, ID (C7, Complement component C7) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-C7 antibody	1. Davila, S., et.al., Genes Immun. 11 (3), 232-238 (2010). 2. Kuijpers, T.W., et.al., Mol. Immunol. 47 (4), 671-677 (2010). 3. Wheeler, H.E., et.al., PLoS Genet. 5 (10), E1000685 (2009).
Other Notes	Small volumes of anti-C7 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C7. It may not necessarily be applicable to this product.

NCBI GI #	45580688
NCBI GeneID	730
NCBI Accession #	NP_000578.2
UniProt Primary Accession #	P10643
UniProt Secondary Accession #	Q6P3T5; Q92489
UniProt Related Accession #	P10643
GenBank Nucleotide #	NM_000587.2
NCBI Official Full Name	complement component C7
NCBI Official Synonym Full Names	complement component 7
NCBI Official Symbol	C7
UniProt Protein Name	Complement component C7
Protein Family	Complement component
UniProt Gene Name	C7
UniProt Entry Name	CO7_HUMAN
NCBI Protein Information	complement component C7
NCBI Summary for C7	C7 is a component of the complement system. It participates in the formation of Membrane Attack Complex (MAC). People with C7 deficiency are prone to bacterial infection. [provided by RefSeq, Jul 2008]
UniProt Comments for C7	C7: 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. C7 serves as a membrane anchor. Defects in C7 are a cause of complement component 7 deficiency (C7D). 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: 5p13 Cellular Component: membrane attack complex; extracellular region Biological Process: cellular sodium ion homeostasis; cytolysis; complement activation, alternative pathway; regulation of complement activation; innate immune response; complement activation, classical pathway; complement activation Disease: Complement Component 7 Deficiency
Research Articles on C7	**1.** Borrelial CspA binds the human terminal complement components C7 and C9 and blocks assembly and membrane insertion of the terminal complement complex (TCC).
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