C9 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	C9, Blocking Peptide
Full Product Name	C9 Antibody (Center) Blocking peptide
Product Gene Name	C9 blocking peptide
Product Synonym Names	Complement component C9; Complement component C9a; Complement component C9b; C9
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the Center region of C9. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	C9 peptide (MBS9220191) is used for blocking the activity of C9 antibody (MBS9208176)
Molecular Weight	63,173 Da
OMIM	120940
Cellular Location	Secreted. Cell membrane; Multi-pass membrane protein. Note: Secreted as soluble monomer. Oligomerizes at target membranes, forming a pre-pore. A conformation change then leads to the formation of a 100 Angstrom diameter pore
Tissue Location	Plasma.
Related Product Information for C9 blocking peptide	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. C9 is the pore-forming subunit of the MAC.
Other Notes	Small volumes of C9 blocking peptide 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 C9 purchase	MBS9220191 is a blocking peptide targeting C9. Also known as C9 Antibody (Center) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C9. It may not necessarily be applicable to this product.

NCBI GI #	1352108
NCBI GeneID	735
NCBI Accession #	P02748.2
UniProt Primary Accession #	P02748
UniProt Related Accession #	P02748
NCBI Official Full Name	Complement component C9
NCBI Official Synonym Full Names	complement component 9
NCBI Official Symbol	C9
NCBI Official Synonym Symbols	C9D; ARMD15
UniProt Protein Name	Complement component C9

Protein Family	Complement component
UniProt Gene Name	C9
UniProt Entry Name	CO9_HUMAN
NCBI Protein Information	complement component C9
NCBI Summary for C9	This gene encodes the final component of the complement system. It 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 component C9 deficiency. [provided by RefSeq, Feb 2009]
UniProt Comments for C9	C9: 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. C9 is the pore-forming subunit of the MAC. Defects in C9 are a cause of complement component 9 deficiency (C9D). 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, integral; Extracellular matrix; Apoptosis; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 5p14-p12 Cellular Component: cytoplasm; extracellular region; integral to plasma membrane; plasma membrane Biological Process: hemolysis by symbiont of host red blood cells; regulation of complement activation Disease: Complement Component 9 Deficiency; Macular Degeneration, Age-related, 15
Research Articles on C9	**1.** Complement C5b-9 complex sensitizes 661W photoreceptor cells to both apoptosis and necroptosis.
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