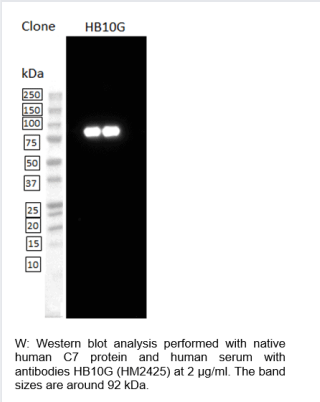
C7 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	C7, Monoclonal Antibody
Full Product Name	C7, Human, clone HB10G
Product Gene Name	anti-C7 antibody
Product Synonym Names	C7, Human, mAb HB10G
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	HB10G
Host	Mouse
Species Reactivity	Mouse
Form/Format	0.2 um filtered in PBS+0.02%NaN3+0.1%BSA
Purity/Purification	Protein G
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for at least six months.
Molecular Weight	93,518 Da
OMIM	217070
3D Structure	ModBase 3D Structure for P10643
Immunogen	Truncated C7 protein covering the C-terminal end
Product Categories/Family for anti-C7 antibody	Monoclonal antibodies
Applications Tested/Suitable for anti-C7 antibody	Immunoassay (IA), Western Blot (WB)
Related Product Information for anti-C7 antibody	Antibody HM2425clone HB10Grecognizes human complement C7 in its native form. Complement component C7 is an important complement protein that acts as a driving or limiting factor for the assembly of the membrane attack complex on local surfaces. However, its precise regulatory role in complement is poorly understood. The main function of C7 is stabilizing the C5b6 complex after initiation of the terminal pathway. It is primarily synthesized extrahepatically at the site of inflammation by granulocytes and endothelial cells, thereby modulating lytic or sublytic membrane attack. Mutations in the C7 gene are associated with a rare disorder called C7 deficiency and affected individuals predisposed to angioedema, collagen vascular disease, or infections. Besides functioning as a single protein and its role in MAC formation, C7 might also form complexes with other proteins indicating potential regulatory functions.
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.
Searchable Terms for C7 purchase	MBS584946 is an antibody targeting C7. Also known as C7, Human, clone HB10G. Reactive in Mouse. Host: Mouse.



W: Western blot analysis performed with native human C7 protein and human serum with antibodies HB10G (HM2425) at 2 µg/ml. The band sizes are around 92 kDa.

Testing Data of anti-C7 antibody

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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