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C7 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9262c

Specification

C7 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P10643

C7 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 730

Other Names
Complement component C7, C7

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9262c was selected from the Center region of human C7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

C7 Antibody (Center) Blocking Peptide - Protein Information

Name C7 {ECO:0000303|PubMed:3335508, ECO:0000312|HGNC:HGNC:1346}

Function
Component of the membrane attack complex (MAC), a multiprotein complex activated by the complement cascade, which inserts into a target cell membrane and forms a pore, leading to target cell membrane rupture and cell lysis (PubMed:22832194, PubMed:26841837, PubMed:27052168, PubMed:30552328, PubMed:3335508). The MAC is initiated by proteolytic cleavage of C5 into complement C5b in response to the classical, alternative, lectin and GZMK complement pathways (PubMed:22832194, PubMed:30552328, PubMed:<a

href="http://www.uniprot.org/citations/3335508" target="_blank">3335508). The complement pathways consist in a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:22832194, PubMed:30552328, PubMed:3335508). C7 serves as a membrane anchor (PubMed:30552328). During MAC assembly, associates with C5b and C6 to form the C5b-7 complex, a key lipophilic precursor of the MAC complex, which associates with the outer leaflet and reduces the energy for membrane bending (PubMed:30552328, PubMed:32569291).

Cellular Location
Secreted. Target cell membrane Note=Secreted as soluble protein (PubMed:3335508). Inserts into the cell membrane of target cells (PubMed:30552328, PubMed:31061395)

C7 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

C7 Antibody (Center) Blocking Peptide - Images

C7 Antibody (Center) Blocking Peptide - Background

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.

C7 Antibody (Center) Blocking Peptide - References

Davila,S., et.al., Genes Immun. 11 (3), 232-238 (2010)Kuijpers,T.W., et.al., Mol. Immunol. 47 (4), 671-677 (2010)Wheeler,H.E., et.al., PLoS Genet. 5 (10), E1000685 (2009)