

Title (en)  
ANTI-C5 ANTIBODIES AND METHODS OF USE

Title (de)  
ANTI-C5-ANTIKÖRPER UND VERFAHREN ZUR VERWENDUNG

Title (fr)  
ANTICORPS ANTI-C5 ET LEURS PROCÉDÉS D'UTILISATION

Publication  
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Application  
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Abstract (en)  
[origin: WO2017217524A1] The invention provides anti-C5 antibodies and methods of using the same. In some embodiments, an isolated anti-C5 antibody of the present invention binds to an epitope within the beta chain of C5 with a higher affinity at neutral pH than at acidic pH. The invention also provides isolated nucleic acids encoding an anti-C5 antibody of the present invention. The invention also provides host cells comprising a nucleic acid of the present invention. The invention also provides a method of producing an antibody comprising culturing a host cell of the present invention so that the antibody is produced. The invention further provides a method of producing an anti-C5 antibody comprising immunizing an animal against a polypeptide which comprises the MG1-MG2 domain of the beta chain of C5. Anti-C5 antibodies of the present invention may be for use as a medicament.

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• [XP] WO 2016098356 A1 20160623 - CHUGAI PHARMACEUTICAL CO LTD [JP]  
• [AP] TAKU FUKUZAWA ET AL: "Long lasting neutralization of C5 by SKY59, a novel recycling antibody, is a potential therapy for complement-mediated diseases", SCIENTIFIC REPORTS, vol. 7, no. 1, 24 April 2017 (2017-04-24), XP055399003, DOI: 10.1038/s41598-017-01087-7  
• See also references of WO 2017217524A1

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