

Anti-complement C5a Antibody

Catalog # ABO11616

Product Information

Application	WB, IHC-P
Primary Accession	P08650
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Complement C5(C5) detection. Tested with WB, IHC-P in Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Other Names	Complement C5, C5a anaphylatoxin, C5
Calculated MW	189081
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Mouse, Rat
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Complement C5
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of rat C5a(1-18aa DLQLLHQKVEEQAAKYKH), different from the related mouse sequence by four amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

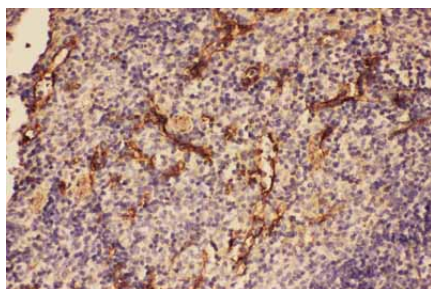
Protein Information

Name	C5
Function	Precursor of the C5a anaphylatoxin and complement C5b components of the complement pathways, which consist in a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system. Activated downstream of classical, alternative, lectin and GZMK complement pathways.
Cellular Location	Secreted. [C5a anaphylatoxin]: Secreted {ECO:0000250 UniProtKB:P01031}

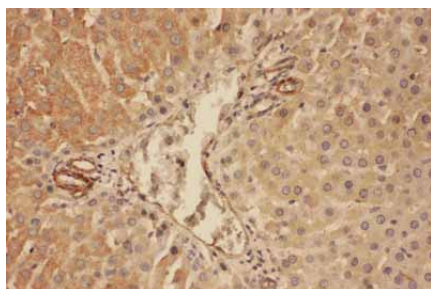
Background

C5a is a protein fragment released from complement component C5. This gene is mapped to 9q33.2. The protein encoded by this gene is the fifth component of complement, which plays an important role in inflammatory and cell killing processes. This protein is comprised of alpha and beta polypeptide chains that are linked by a disulfide bridge. An activation peptide, C5a, which is an anaphylatoxin that possesses potent spasmogenic and chemotactic activity, is derived from the alpha polypeptide via cleavage with a convertase. The C5b macromolecular cleavage product can form a complex with the C6 complement component, and this complex is the basis for formation of the membrane attack complex, which includes additional complement components. Mutations in this gene cause complement component 5 deficiency, a disease where patients show a propensity for severe recurrent infections. Defects in this gene have also been linked to susceptibility to liver fibrosis and to rheumatoid arthritis.

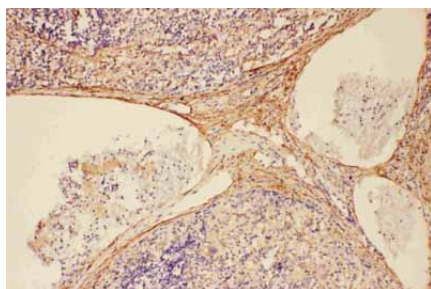
Images



Anti-C5/C5a antibody, ABO11616, IHC(P)IHC(P): Mouse Spleen Tissue



Anti-C5/C5a antibody, ABO11616, IHC(P)IHC(P): Rat Liver Tissue



Anti-C5/C5a antibody, ABO11616, IHC(P)IHC(P): Rat Spleen Tissue



Anti-C5/C5a antibody, ABO11616, All Western blotting
 All lanes: Anti-C5a(ABO11616) at 0.5ug/ml
 Lane 1: Rat Liver Tissue Lysate at 40ug
 Lane 2: Mouse Liver Tissue Lysate at 40ug
 Lane 3: NIH Whole Cell Lysate at 40ug
 Lane 4: HEPA Whole Cell Lysate at 40ug
 Lane 5: PC12 Whole Cell Lysate at 40ug
 Predicted bind size: 115KD
 Observed bind size: 115KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.