

Anti-complement C5a Antibody

Catalog # ABO11879

Product Information

Application	WB, IHC-P
Primary Accession	P08650
Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Complement C5(C5) detection. Tested with WB, IHC-P in 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, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Rat
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Complement C5
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived rat C5a recombinant protein (Position: D1-R77). Rat C5a shares 62% and 82% amino acid (aa) sequences identity with human and mouse C5a, respectively.
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. C5a plays a key role in increasing migration and adherence of neutrophils and monocytes to vessel walls. 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

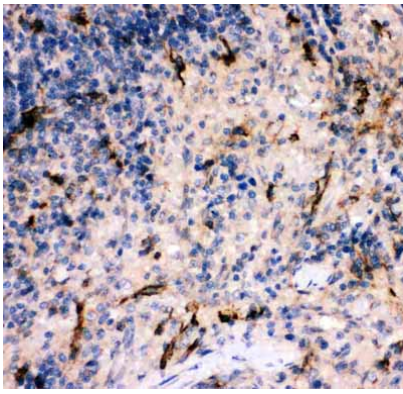


Anti- C5A antibody, ABO11879, Western blottingAll lanes:
Anti C5A (ABO11879) at 0.5ug/mlWB: Recombinant Rat
C5A Protein 0.5ngPredicted bind size: 37KDObserved
bind size: 37KD



Anti- C5A antibody, ABO11879, Western blottingAll lanes:
Anti C5A (ABO11879) at 0.5ug/mlWB: Rat Liver Tissue
Lysate at 50ugPredicted bind size: 115KDObserved bind
size: 115KD

Anti- C5A antibody, ABO11879, IHC(P)IHC(P): Rat Spleen
Tissue



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