

Anti-complement C5a Antibody
Catalog # ABO11879**Specification**

Anti-complement C5a Antibody - 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.

Anti-complement C5a Antibody - Additional Information**Other Names**

Complement C5, C5a anaphylatoxin, C5

Calculated MW

8981 MW KDa

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.

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 r°Constitution,

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.

Anti-complement C5a Antibody - 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

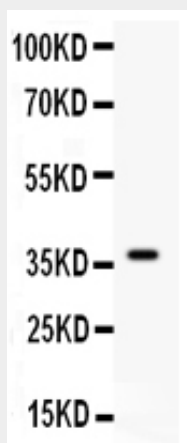
Secreted. [C5a anaphylatoxin]: Secreted {ECO:0000250|UniProtKB:P01031}

Anti-complement C5a Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

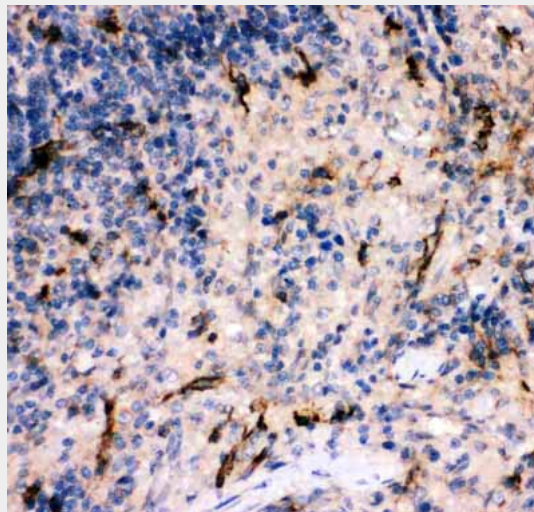
Anti-complement C5a Antibody - Images



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

130KD —
100KD —
70KD —
55KD —
35KD —
25KD —

Anti- C5A antibody, ABO11879, Western blotting All lanes: Anti C5A (ABO11879) at 0.5ug/ml WB: Rat Liver Tissue Lysate at 50ug Predicted bind size: 115KD Observed bind size: 115KD



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

Anti-complement C5a Antibody - 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.