Product datasheet

Anti-C5 antibody ab217027

Overview

Product name: Anti-C5 antibody
Description: Rabbit polyclonal to C5
Host species: Rabbit
Tested applications: Suitable for: IHC-P
Species reactivity: Reacts with: Mouse, Human
Immunogen: Synthetic peptide within Mouse C5 aa 700-770 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary.
Database link: P06684
Positive control: IHC-P: Human laryngeal carcinoma tissue.

Properties

Form: Liquid
Storage buffer: Preservative: 0.09% Sodium azide
Constituents: 50% Glycerol, 1% BSA
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab217027 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/100 - 1/500.</td>
<td>When using a fluorescent probe please use a dilution of 1/50- 1/200.</td>
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</tbody>
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**Function**

Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled. Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. C5a also stimulates the locomotion of polymorphonuclear leukocytes (chemokinesis) and direct their migration toward sites of inflammation (chemotaxis).

**Involvement in disease**

Defects in C5 are the cause of complement component 5 deficiency (C5D) [MIM:609536]. A rare defect of the complement classical pathway associated with susceptibility to severe recurrent infections, predominantly by Neisseria gonorrhoeae or Neisseria meningitidis.

Note=An association study of C5 haplotypes and genotypes in individuals with chronic hepatitis C virus infection shows that individuals homozygous for the C5_1 haplotype have a significantly higher stage of liver fibrosis than individuals carrying at least 1 other allele (PubMed:15995705).

**Sequence similarities**

Contains 1 anaphylatoxin-like domain.
Contains 1 NTR domain.

**Cellular localization**

Secreted.

**Images**

Immunohistochemical analysis of formalin-fixed paraffin-embedded human laryngeal carcinoma sections labeling C5 with ab217027 at a 1/200 dilution. Secondary goat anti-rabbit IgG, PE conjugated used at a 1/200 dilution.
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