

## Product datasheet

# Anti-C4c+C4b antibody (FITC) ab4216

### Overview

<b>Product name</b>	Anti-C4c+C4b antibody (FITC)
<b>Description</b>	Rabbit polyclonal to C4c+C4b (FITC)
<b>Host species</b>	Rabbit
<b>Conjugation</b>	FITC. Ex: 493nm, Em: 528nm
<b>Specificity</b>	This antibody reacts with human C4, C4b and C4c but does not react with the C4d epitope.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-Fr, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	C4c complement isolated from complement activated human serum.
<b>General notes</b>	Fluorescein isothiocyanate (FITC) isomer 1.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituents: PBS, 1% BSA
<b>Purity</b>	IgG fraction
<b>Purification notes</b>	Traces of contaminating antibodies have been removed by solid phase absorption with human plasma proteins.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab4216** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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Application	Abreviews	Notes
IHC-Fr		1/50 - 1/100. Incubate for 30 - 60 min at room temperature. Optimal dilutions / concentrations should be determined by the end user.
IHC-P		1/50 - 1/100. Incubate for 30 - 60 min at room temperature. Optimal dilutions / concentrations should be determined by the end user.

## Target

### Relevance

C4 plays a central role in the activation of the classical pathway of the complement system. Human complement component C4 is polymorphic at two loci, C4A and C4B. The C4A alleles carry the Rodgers (Rg) while the C4B alleles carry the Chido (Ch) blood group antigens. C4 (either allele A or B) protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement components. During activation, the alpha chain is cleaved by C1 into C4a and C4b, and C4b stays linked to the beta and gamma chains. Further degradation of C4b by C1 into the inactive fragments C4c and C4d blocks the generation of C3 convertase.

### Cellular localization

Secreted

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