

Product datasheet

FITC Anti-C1q antibody ab4223

★★★★☆ [2 Abreviews](#) [8 References](#) [2 Images](#)

Overview

Product name	FITC Anti-C1q antibody
Description	FITC Rabbit polyclonal to C1q
Host species	Rabbit
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	Suitable for: IHC-P, Flow Cyt, ICC
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified) corresponding to Human C1q. C1q isolated from the normal human serum.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

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

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab4223 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
IHC-P		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. PubMed: 21746929 ab37406 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ICC		Use at an assay dependent concentration.

Target

Function

C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complement system. The collagen-like regions of C1q interact with the Ca(2+)-dependent C1r(2)C1s(2) proenzyme complex, and efficient activation of C1 takes place on interaction of the globular heads of C1q with the Fc regions of IgG or IgM antibody present in immune complexes.

Involvement in disease

Defects in C1QA are a cause of complement component C1q deficiency (C1QD) [MIM:613652]. A rare defect resulting in C1 deficiency and impaired activation of the complement classical pathway. C1 deficiency generally leads to severe immune complex disease with features of systemic lupus erythematosus and glomerulonephritis.

Sequence similarities

Contains 1 C1q domain.
Contains 1 collagen-like domain.

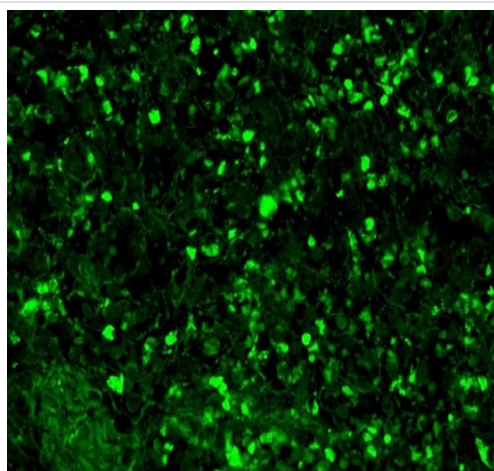
Post-translational modifications

O-linked glycans consist of Glc-Gal disaccharides bound to the oxygen atom of post-translationally added hydroxyl groups.

Cellular localization

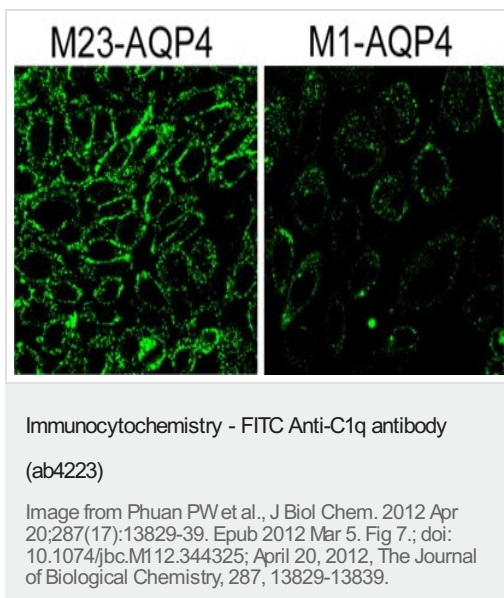
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Images



Immunocytochemistry - FITC Anti-C1q antibody
(ab4223)

C1q isolated from the NHS. This antibody reacts with the Human C1q complement. Traces of contaminating antibodies have been removed by solid phase absorption with human plasma proteins. This antibody is well suited for tissue section staining but may also be used for other applications.



ab4223, staining C1q in CHO-K1 cells transfected with M1-AQP4 or M23-AQP4 by Immunocytochemistry/ Immunofluorescence.

Cells were incubated at room temperature with recombinant monoclonal NMO antibody and 120 µg/ml human C1q protein (**ab96363**). Cells were washed with PBS, fixed in paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were blocked with 1% BSA for 30 min and incubated for 60 min with primary antibody against C1q (ab4223) at 1/200 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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