abcam

Product datasheet

Anti-C3d antibody [7C10] ab17453

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概述

产品名称	Anti-C3d抗体[7C10]
描述	**小鼠单克隆抗体**[7C10] to C3d
宿主	Mouse
特异性	This product is specific to C3d, but also C3b and iC3b, since C3d is a product from C3b.
经测试应用	**适用于:** IHC
种属反应性	**与反应:** Human
免疫原	Full length native protein (purified) corresponding to Human C3d.
表位	Epitope specificity differs from that of **ab17455**.
阳性对照	IHC-P: Human kidney tissue.
常规说明	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. 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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.098% Sodium azide Constituents: PBS, 2.9% Sodium chloride
纯度	Protein A purified
克隆	单克隆
克隆编号	7C10
骨髓瘤	x63-Ag8.653
同种型	IgG1

轻链类型 kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab17453**于以下的**经测试应用

"应用说明"**部分 下显示的**仅为**推荐的起始稀释度**;实际**最佳的稀释度**/浓**度**应**由使用者检定。**

应用	Ab评论	说明
IF		1/10.
IHC		1/10.

靶标

功能 C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates.
Derived from proteolytic degradation of complement C3, C3a 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.

组织特异性 Plasma.

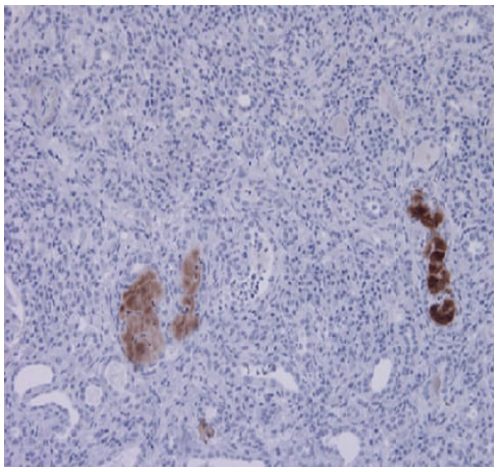
疾病相关 Defects in C3 are the cause of complement component 3 deficiency (C3D) [MIM:613779]. A rare defect of the complement classical pathway. Patients develop recurrent, severe, pyogenic infections because of ineffective opsonization of pathogens. Some patients may also develop autoimmune disorders, such as arthralgia and vasculitic rashes, lupus-like syndrome and membranoproliferative glomerulonephritis.
Genetic variation in C3 is associated with susceptibility to age-related macular degeneration type 9 (ARMD9) [MIM:611378]. ARMD is a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world. In most patients, the disease is manifest as ophthalmoscopically visible yellowish accumulations of protein and lipid that lie beneath the retinal pigment epithelium and within an elastin-containing structure known as Bruch membrane.
Defects in C3 are a cause of susceptibility to hemolytic uremic syndrome atypical type 5 (AHUS5) [MIM:612925]. An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Note=Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the phenotype.

序列相似性 Contains 1 anaphylatoxin-like domain.
Contains 1 NTR domain.

翻译后修饰 C3b is rapidly split in two positions by factor I and a cofactor to form iC3b (inactivated C3b) and C3f which is released. Then iC3b is slowly cleaved (possibly by factor I) to form C3c (beta chain + alpha' chain fragment 1 + alpha' chain fragment 2), C3dg and C3f. Other proteases produce other

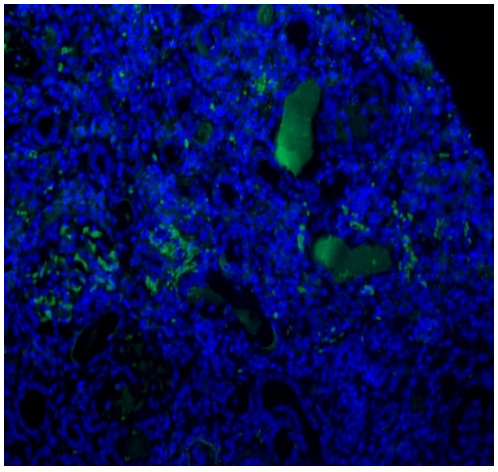
	fragments such as C3d or C3g. Phosphorylation sites are present in the extracelllular medium.
细胞定位	Secreted.

图片



Immunohistochemistry - Anti-C3d antibody [7C10] (ab17453)

Immunohistochemical analysis of human kidney labelling C3d with ab17453 at a dilution of 1/10. Plasma of veins were stained strongly.



Immunofluorescence - Anti-C3d antibody [7C10] (ab17453)

Immunofluorescent analysis of human kidney labelling C3d with ab17453 at a dilution of 1/10. Plasma of veins were stained strongly.

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