abcam

Product datasheet

Anti-C3 antibody ab116558

1 图像

概述

产品名称	Anti-C3抗体
描述	**兔多克隆抗体**to C3
经测试应用	**适用于:** WB
种属反应性	**与反应:** Human
免疫原	Synthetic peptide conjugated to KLH, corresponding to a region within C terminal amino acids 1352-1382 of Human C3 (NP_000055.2)
阳性对照	NCI-H292 cell lysate

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C long term.
存储溶液	Preservative: 0.09% Sodium azide Constituent: 99% PBS
纯度	Immunogen affinity purified
纯化说明	ab116558 was purified through a protein A column, followed by peptide affinity purification.
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab116558** in the following tested applications.

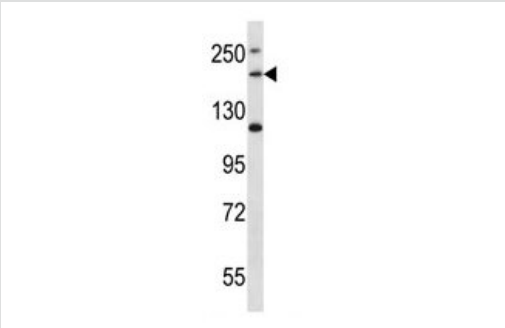
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/100 - 1/500. Predicted molecular weight: 187 kDa.

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:120700]. 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



Western blot - Anti-C3 antibody (ab116558)

Anti-C3 antibody (ab116558) at 1/100 dilution
+ NCI-H292 cell lysate at 35 µg

Predicted band size : 187 kDa

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